

## Appendix 2

# Legislative Context and Methodology

## Legislative Context

The regime for contaminated land was set out in Part 2A (ss.78A-78YC) of the Environmental Protection Act 1990 (EPA), as inserted by S.57 of The Environment Act 1995 and came into effect in England on 1st April 2000 as The Contaminated Land (England) Regulations 2000 (SI 2000/227). These regulations were subsequently revoked with the provision of The Contaminated Land (England) Regulations 2006 (SI 2006/1380) (as amended), which came into force in August 2006, and consolidated the previous regulations and amendments. Revised statutory guidance ("the Guidance") for local authorities on how to implement the regime, including the decision-making process on whether land is contaminated land in the legal sense, has been published by Defra and entered into force in April 2012.

Under Part 2A of the EPA Section 78A(2), "contaminated land" is defined as "land which appears... to be in such a condition, by reason of substances in, on or under the land, that:

- a) significant harm is being caused or there is a significant possibility of such harm being caused<sup>1</sup>; or
- b) significant pollution of controlled waters is being caused, or there is a significant possibility of such pollution being caused".

"Significant harm" is defined in the Guidance on risk-based criteria and must be the result of one or more relevant 'contaminant linkages' relating to the land. The presence of a contaminant linkage relies on the Source-Pathway-Receptor concept, where all three factors must be present and potentially or actually linked for a potential risk to exist. Under the Guidance, a 'significant contaminant linkage' is one which gives rise to a level of risk sufficient to justify a piece of land being determined as contaminated land. Should the authority consider that there is an unacceptably high probability, supported by robust science-based evidence that significant harm would occur if no action is taken to stop it, the land should be deemed a Category 1: Human Health. Land should be placed into Category 2 if the authority concludes, on the basis that there is a strong case for considering that the risks from the land are of sufficient concern, that the land poses a significant possibility of significant harm. Both Category 1 and Category 2 cases would be capable of being determined as contaminated land under Part 2A on the grounds of significant possibility of significant harm to human health. If the legal test for significant possibility of significant harm is not met, the authority should place the land into Category 3. If the local authority considers that there is no risk or that the level of risk posed is low, the land should be placed into Category 4.

The pollution of controlled waters is defined in Section 78A(9) of the Act as "the entry into controlled waters of any poisonous, noxious or polluting matter or any solid waste matter". The new Guidance stresses that the Part 2A regime is designed to identify and deal with 'significant pollution' and not lesser levels of pollution. As with human health risk, Categories 1 and 2 comprise land where the local authority considers that a significant possibility of significant pollution of controlled waters exists and Categories 3 and 4 comprises cases where the authority considers that a significant possibility of such pollution does not exist. The local authority should be satisfied that a substance is continuing to enter controlled waters or is likely to enter controlled waters.

### Risk Assessment Framework

"Significant harm" or "significant pollution of controlled waters" is defined in the Guidance on risk-based criteria and must be the result of one or more relevant 'contaminant linkages' relating to the land.

The presence of a contaminant linkage relies on the Source-Pathway-Receptor concept, where all three factors must be present and potentially or actually linked for a potential risk to exist. For a risk

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<sup>1</sup> Water Act 2003 (Commencement No. 11) Order 2012

of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- A source - a substance that is capable of causing pollution or harm;
- A receptor - something which could be adversely affected by the contaminant; and
- A pathway - a route by which the contaminant can reach the receptor.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

The Land Contamination: Risk Management<sup>2</sup> (LCRM) provides the technical framework for structured decision making about land contamination. LCRM advocates a phased approach, commencing with Stage 1 Risk Assessment comprising:

- Preliminary Risk Assessment (PRA) – desk study and qualitative assessment to develop of an outline Conceptual Site Model (CSM);
- Generic Quantitative Risk Assessment (GQRA) – an estimation of risk through assessment of contaminant concentrations against generic assessment criteria; and
- Detailed Quantitative Risk Assessment (DQRA) – an estimation of risk through detailed site-specific risk assessment and development of site-specific assessment criteria (SSAC) and site-specific risk assessment.

Each stage of assessment is focussed upon the development and refinement of a conceptual site model, which identifies Source-Pathway-Receptor linkages. The conceptual site model has been developed with consideration to guidance including BS EN ISO 21365:2020 Soil quality – Conceptual site models for potentially contaminated sites.

## Risk Estimation

An assessment of environmental risks is made for each potential pollutant linkage identified.

Risk estimation has been completed in accordance with the guidance provided in:

- NHBC and Environment Agency 2008. Guidance for the Safe Development of Housing on Land Affected by Contamination. R&D Publication 66: 2008.

The following is taken directly from NHBC/EA 2008. The key to the classification is that the designation of risk is based upon the consideration of both:

- the magnitude of the potential consequence (i.e. severity) [takes into account both the potential severity of the hazard and the sensitivity of the receptor]; and
- the magnitude of probability (i.e. likelihood) [takes into account both the presence of the hazard and receptor and the integrity of the pathway].

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<sup>2</sup> Land Contamination: Risk Management (LCRM), published by the Environment Agency on 8 October 2020

Table 1: Classification of Consequence (after NHBC/EA 2008)

| Category | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Severe   | <p>Highly elevated concentrations <b>likely</b> to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs.</p> <p>Equivalent to <b>EA Category 1</b> pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.</p> <p>Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.</p> <p>Catastrophic damage to crops, buildings or property.</p> |
| Medium   | <p>Elevated concentrations which could result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs.</p> <p>Equivalent to <b>EA Category 2</b> pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce.</p> <p>Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population.</p> <p>Significant damage to crops, buildings or property.</p>                                          |
| Mild     | <p>Exposure to human health <b>unlikely</b> to lead to "significant harm".</p> <p>Equivalent to <b>EA Category 3</b> pollution incident including minimal or short-lived effect on water quality; marginal effect on amenity value, agriculture or commerce.</p> <p>Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.</p> <p>Minor damage to crops, buildings or property.</p>                                                                                                                                        |
| Minor    | <p>No measurable effect on humans.</p> <p>Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.</p> <p>Repairable effects of damage to buildings, structures and services.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

\* For these purposes, disease is to be taken to mean an unhealthy condition of the body or a part of it and can include, for example, cancer, liver dysfunction or extensive skin ailments. Mental dysfunction is included only insofar as it is attributable to the effects of a pollutant on the body of the person concerned.

The likelihood of an event (probability) takes into account both the presence of the hazard and target and the integrity of the pathway and has been assessed based on the categories given below.



**Table 2: Classification of Probability (after NHBC/EA 2008)**

| Category        | Definition                                                                                                                                                                                                                                                         |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Likelihood | There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.                                                                            |
| Likely          | There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term. |
| Low Likelihood  | There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place and is less likely in the shorter term.                                 |
| Unlikely        | There is pollutant linkage, but circumstances are such that it is improbable that an event would occur even in the very long-term.                                                                                                                                 |

The potential severity of the risk and the probability of the risk occurring have been combined in accordance with the following matrix in order to give a level of risk for each potential hazard.

**Table 3: The Classification of Risk (after NHBC/EA 2008)**

|             |                 | Consequence   |               |              |          |
|-------------|-----------------|---------------|---------------|--------------|----------|
|             |                 | Severe        | Medium        | Mild         | Minor    |
| Probability | High Likelihood | Very high     | High          | Moderate     | Low      |
|             | Likely          | High          | Moderate      | Moderate/Low | Low      |
|             | Low Likelihood  | Moderate      | Moderate/ Low | Low          | Very low |
|             | Unlikely        | Moderate/ Low | Low           | Very low     | Very low |

**Very high risk**

There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.

**High risk**

Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.

**Moderate risk**

It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.

**Low risk**

It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier

would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.

**Very low risk**

It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.

**No potential risk**

There is no potential risk if no pollution linkage has been established.

## GQRA Methodologies

In order to assess the significance of contaminant concentrations, Ramboll has derived Generic Assessment Criteria (GAC) for screening purposes. GAC are derived for each critical receptor identified. Receptors are considered in relation to:

- Human health receptors (e.g. site users); and
- The water environment (e.g. groundwater and surface water).

Potential risks to human health are considered primarily using measured concentrations of contaminants in soil. Potential risks to the water environment are considered primarily using groundwater and soil leachate (most commonly in the absence of groundwater) concentrations as indicative of the potentially mobile fraction of any soil impact.

Additional receptors may be relevant, dependent on the site e.g. flora/fauna, agricultural use, water supply pipes, buried concrete etc. These are considered separately on a site specific basis if relevant.

**Soil Human Health Risk Assessment**

The Ramboll GAC for human health risk assessment of soils are based on the generic scenarios outlined in the Defra<sup>3</sup> SP1010 guidance, Contaminated Land Exposure Assessment (CLEA) methodology and associated guidance documents. The Ramboll GAC have been calculated by use of two proprietary risk assessment models (CLEA Version 1.071 and the ASTM RBCA<sup>4</sup> Tool Kit Version 2.6 for Chemical Releases) which have been altered, where necessary, to reflect the current UK approach to human health risk assessment as set out in LCRM, DEFRA SP1010 guidance, and the CLEA guidance documents (incorporating Science Reports SC050021/SR2 (January 2009), SR3 (January 2009), SR4 (September 2009) and the SGV reports (2009)). The Ramboll GAC include the conservative assumptions of a sandy soil type and 1% soil organic matter.

A methodology for derivation of screening values, the Category 4 Screening Levels, or C4SLs, has been developed and endorsed for use by Defra that describe a low level of risk just below the Category 3/4 boundary set in the Statutory Guidance, i.e. where concentrations are below the C4SL, there is no risk or the level of risk is acceptably low. Initially, C4SLs were developed for six common contaminants (benzo(a)pyrene, cadmium, arsenic, benzene, hexavalent chromium and lead). The Environment Agency states under their LCRM approach that they expect C4SL values to be used in risk assessments for land contamination. C4SLs for additional compounds are being developed by Contaminated Land: Applications in Real Environments (CL:AIRE) and are published on their website when approved for publication<sup>5</sup>. Currently additional C4SLs have been published for vinyl chloride, trichloroethene, tetrachloroethene and 1,2-dichloroethane.

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<sup>3</sup> SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document, Defra, revised December 2014.

<sup>4</sup> American Society for Testing Materials – Risk Based Corrective Action Model, Version 2.6

<sup>5</sup> C4SL (claire.co.uk)

Defra's SP1010 Policy Companion document states that it is anticipated that risk assessors will use the C4SL values, where derived, in line with Part 2A Statutory Guidance. In the absence of a suitable C4SL, risk assessors should identify and select appropriate generic assessment criteria in accordance with established good practice. On this basis, Ramboll has adopted the use of C4SLs where available, however minimal risk (instead of the 'low' level of risk) toxicological assumptions have been applied for in-house Ramboll GAC for other contaminants of concern within our screening assessments.

For contaminants which do not have published C4SLs, the physiochemical and toxicological data has been taken from or derived using the methodology detailed in SR7 (November 2008) and SGV reports (2009), where feasible. Ramboll also attended the Land Quality Management and Chartered Institute of Environmental Health workshop for the collaborative development of 'Suitable 4 Use Levels' (S4ULs) and reference has been made to their publication 'The LQM/CIEH S4ULs for Human Health Risk Assessment, 2015'. Review of additional UK organisation guidance including CL:AIRE and partners GAC, including addendums up until 10 April 2012 has also been made. Finally, where necessary, other published sources of (non-UK) information, such as the RBCA V2.6 database have also been reviewed.

### **Assessment of Impact to Waters**

Assessment of risks to water resources (referred to as "controlled waters" in England & Wales) is completed in general accordance with guidance provided in the Environment Agency's Approach to groundwater protection (2018<sup>6</sup>).

Generic assessment criteria for waters have been selected by Ramboll to assess potential risks to the identified environmental receptors. A hierarchical approach has been taken to the use of assessment criteria based on adoption of published water quality standards at European level and UK specific standards, with those standards being chosen based on the conceptual site model and identified critical receptors. For those determinants included in the analytical suite which do not have a corresponding UK drinking water or environmental screening criteria, reference is made to international guidance in accordance with Environment Agency recommendations.

Where such standards are unavailable, standards taken from other organisations, for example the World Health Organisation or OSPAR, have been used.

The list of critical legislation used in this approach is described below.

#### **European Assessment Criteria:**

- 2000/60/EC: Water Framework Directive;
- 2006/118/EC: On the Protection of Groundwater Against Pollution and Deterioration; and
- 2013/39/EU: Priority Substances in the Field of Water Policy Directive.

#### **UK Assessment Criteria:**

- UKTAG Groundwater Hazardous Substances Standards 2016, annex 2018.

#### **English and Welsh Criteria:**

- The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017;
- The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015;
- The Groundwater (Water Framework Directive) (England) Direction 2016; and
- The Water Supply (Miscellaneous Amendments) Regulations (England and Wales) 2010.

#### **Other Criteria:**

- World Health Organisation (WHO) Drinking Water Regulations 4th edition 2011;

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<sup>6</sup> The Environment Agency's approach to groundwater protection; February 2018; Version 1.2.

- World Health Organisation (WHO): Petroleum Products in Drinking-water. Background document for development of WHO Guidelines for Drinking-water Quality 2008;
- USEPA National Primary Drinking Water Regulations; and
- OSPAR: Establishment of a List of Predicted No Effect Concentrations (PNECs) for Naturally Occurring Substances in Produced Water. OSPAR Agreement 2014-2015.

Minimum reporting values are also considered for hazardous substances for assessment of risks to groundwater resources in order to comply with the requirements of the guidance to 'prevent' input of hazardous substances to groundwater.

### **Assessment of Water Impact to Human Health**

A methodology for the generation of the GAC for groundwater vapours (GACgwvap) was published by the Society of Brownfield Risk Assessment (SoBRA) in February 2017<sup>7</sup>, which is based on the CLEA model. Ramboll has adopted SoBRA's approach and modified the model input parameters to reflect site conditions and generate site SSAC for groundwater contaminant sources designed to be protective of site users for a residential and/or commercial/industrial scenario as appropriate.

The SoBRA (GACgwvap) methodology uses the Environment Agency's CLEA software model. The CLEA software was originally provided for deriving assessment criteria for soils, not groundwater; however, groundwater assessment criteria can be extracted from the calculations within CLEA. CLEA assumes a steady state equilibrium between the sorbed, water and vapour phase concentrations in soil. Consequently, as part of the process of calculating soil phase concentrations, the software also calculates the vapour phase concentration and the pore water dissolved concentration (soil solution concentration) at the soil GAC. Therefore, for given soil assessment criteria derived to be protective of health, a soil solution concentration is also available within the CLEA calculations which would give rise to this vapour concentration at the tolerable risk level. This soil solution concentration is used as an inferred groundwater SSAC.

The proprietary risk assessment model, the ASTM RBCA<sup>®</sup> Tool Kit Version 2.6 for Chemical Releases, has been used for compounds which could not be run in CLEA. The RBCA model has been altered where necessary to reflect the current UK approach to human health risk assessment, as appropriate.

### **Contaminant Distribution Assessment**

Concentrations above the GAC are considered further in relation to vertical and lateral distribution across the site. Where relevant, statistical analysis has been used with consideration to guidance provided in CL:AIRE statistical assessment guidance<sup>9</sup>.

## **Ground Gas Risk Assessment**

The assessment of risks from ground gas is based on current best practice guidance provided in the following documents:

- BS8485:2015+A1:2019. Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings; and
- NF94, NHBC2023. Hazardous ground gas – an essential guide for housebuilders

### **Derivation of Characteristic Situation**

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<sup>7</sup> SoBRA (2017) Development of Generic Assessment Criteria for Assessing Vapour Risks to Human Health from Volatile Contaminants in Groundwater. Version 1.0

<sup>8</sup> American Society for Testing Materials – Risk Based Corrective Action Model, Version 2.6

<sup>9</sup> CL:AIRE (2020) Professional Guidance: Comparing Soil Contamination Data with a Critical Concentration

The risk posed by ground gases using the approaches outlined in the documents above are assessed by calculating a Gas Screening Value (GSV). Derivation of the GSV is calculated by multiplying the steady state borehole flow rate (l/hr) with the peak carbon dioxide and methane concentrations for each well. Where required, a 'worst case' condition is also calculated by multiplying the maximum recorded steady state borehole flow rate with the peak carbon dioxide and methane concentrations for different strata across the entire site or zone (as applicable).

The calculated GSV is used to derive a 'Characteristic Situation' which ranges between CS1 (very low hazard potential) to CS6 (very high hazard potential) as defined within BS8485. This approach is applicable to commercial, industrial, and both high-rise and (since 2023) low-rise residential buildings (replacing the former NHBC traffic light system).

### **Requirement for Gas Protection Measures**

The British Standards Characteristic Situation is used to determine the gas protection measures needed for a building. Gas protection measures are generally not required for CS1 (very low risk) sites unless the Conceptual Site Model indicates a need for further consideration. Although BS8485 relates to assessment for new buildings the same assessment methodology can be applied for appraisal of existing site buildings.

BS8485 requires a gas protection score to be identified for a proposed development. This is categorised based on the 'building type' from Type A to D, based on factors including construction and use of the building, together with the control of future structural changes to the building and its maintenance, since potential risks posed by ground gases are strongly influenced by these factors. Gas protection measures are selected to meet the required gas protection score in BS8485, although for some developments in higher Characteristic Situations the gas hazard is considered too high to use the method outlined in BS8485 to define the gas protection measures and further detailed quantitative gas risk assessment is required.

## **Water Supply Pipes**

The assessment has been completed with consideration to the current UK guidance:

- Water UK. Jan 2014. Contaminated Land Assessment Guidance; and
- UKWIR UK Water Industry Research Ltd, 2010. Guidance for Selection of Water Supply Pipes to be used in Brownfield Sites.

This guidance provides threshold concentrations for different pipe material for various chemical groups.

The pipeline materials considered by the guidance are PE, PVC, wrapped steel, wrapped ductile iron or copper pipe and barrier pipe. PE and PVC are assessed using threshold concentrations for various chemical groups including volatile organic compounds (VOC) with tentatively identified compounds (TICs), semi-volatile organic compounds (SVOC) with TICs, and mineral oils. Wrapped steel, wrapped ductile iron and copper pipe are assessed using corrosive properties.

Regional water companies may have adopted additional more stringent thresholds which they apply locally, thus consultation with the water authority must always be completed prior to final determination of water supply pipe materials. Further, more detailed assessment may be required along the route of the proposed water supply pipes, once this is ascertained.

## Appendix 3

### Factual Site Investigation Information

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------|-------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                      | Location ID           |                 |            |              |                         |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                      | HEP-BH-2484           |                 |            |              |                         |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
|                                                                                     | Coordinates (m) |     | E502986.12 N175792.70    | Ground Elevation (m Datum) | 19.99                                                                                                                                                                                                                                                                                | Sheet 1 of 1          |                 |            |              |                         |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                      | Status                | Final           |            |              |                         |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                      |                       |                 |            | Groundwater  |                         |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                  | Depth (Thickness) (m) | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |
| 0.20 - 0.25                                                                         | D               | 1   |                          |                            | TOPSOIL: brown silt. With frequent rootlets (<1x11 mm).<br>[TOPSOIL] [SILT]<br>MADE GROUND: (very soft), dark brown, slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY] | (0.11)<br>0.11        | 19.88           |            |              |                         |
| 1.20 - 1.25                                                                         | D               | 2   |                          | 1                          |                                                                                                                                                                                                                                                                                      | (1.39)                |                 |            |              |                         |
|                                                                                     |                 |     |                          | 2                          | MADE GROUND: (soft and firm), black, mottled dark greyish brown, slightly sandy, gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, chalk and brick.<br>[MADE GROUND] [CLAY]                                                       | 1.50                  | 18.49           |            |              |                         |
| 2.50 - 2.55                                                                         | D               | 3   |                          | 3                          |                                                                                                                                                                                                                                                                                      | (2.20)                |                 |            |              |                         |
| 3.60 - 3.65                                                                         | D               | 4   |                          | 4                          | End of Borehole at 3.70 m                                                                                                                                                                                                                                                            | 3.70                  | 16.29           |            |              |                         |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                      |                       |                 |            |              |                         |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                      | Print Date            |                 | 26/02/2020 |              |                         |

|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|------------------|------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                            |                                                                                                                                                                                   | Location ID        |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                            |                                                                                                                                                                                   | <b>HEP-BH-2484</b> |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502986.12 N175792.70    |                          | Ground Elevation (m Datum) |                                                                                                                                                                                   | 19.99              |                        | Sheet 1 of 1     |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                            |                                                                                                                                                                                   | Status             |                        | Final            |                              |                              |                                                         |                                                      |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel                                                                                                                                                                       | Core Bit           | Drilling Crew          | Logged By        | Remarks                      |                              |                                                         |                                                      |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>3.70                     | IP<br>CP              | 25/06/2019<br>25/06/2019 | 25/06/2019<br>26/06/2019 | Hand-dug<br>Dando 3000     |                                                                                                                                                                                   |                    | SB<br>SB               | JJ<br>JJ         |                              |                              |                                                         |                                                      |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                            | Rotary Details                                                                                                                                                                    |                    |                        |                  | Core Details                 |                              |                                                         |                                                      |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)                                                                                                                                                                    | Depth To (m)       | Flush Type             | Flush Return (%) | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m)                                         | Diameter (mm) |                      |  |
| 25/06/2019<br>25/06/2019<br>25/06/2019                                              | 15:45:00<br>16:45:00<br>18:00:00 | 0.00<br>1.20<br>3.70  | 3.00                     | Dry<br>Dry               |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               | Casing Diameter (mm) |  |
| 3.70                                                                                |                                  | 200                   |                          | 3.00                     |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               | 200                  |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                            | Water Added                                                                                                                                                                       |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)             | Depth To (m)                                                                                                                                                                      |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                            | General Remarks                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          |                            | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          |                            | Pipe                                                                                                                                                                              |                    |                        |                  | Backfill                     |                              |                                                         |                                                      |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)                                                                                                                                                                     | Base Depth (m)     | Diameter (mm)          | Type             | Depth From (m)               | Depth To (m)                 | Backfill Material                                       | Date                                                 |               |                      |  |
| GMP                                                                                 | 1                                | 1.00                  | 3.70                     | 26/06/2019               | Pipe1<br>Pipe1             | 0.12<br>1.20                                                                                                                                                                      | 1.20<br>3.70       | 50<br>50               | Plain<br>Slotted | 0.00<br>0.05<br>0.20<br>1.00 | 0.05<br>0.20<br>1.00<br>3.70 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 26/06/2019<br>26/06/2019<br>26/06/2019<br>26/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined                                                                                                                                                           |                    | Grid Coordinate System |                  | OSGB                         |                              |                                                         |                                                      |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  | Print Date                   |                              | 26/02/2020                                              |                                                      |               |                      |  |



|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | HEP-BH-2484                                            |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502986.12 N175792.70                   | Ground Elevation (m Datum)        | 19.99                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 | Final            |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                     |                 |        |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                    |             |              |                         |
|-------------------------------------------------------------------------------------|-----------------|--------|--------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|-------------|--------------|-------------------------|
|    | Contract Name   |        | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Location ID            |                    |             |              |                         |
|                                                                                     | Client          |        | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HEP-BH-2486            |                    |             |              |                         |
|                                                                                     | Fugro Reference |        | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                    |             |              |                         |
|                                                                                     | Coordinates (m) |        | E502807.26 N175974.51    | Ground Elevation (m Datum) | 20.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sheet 1 of 1           |                    |             |              |                         |
|                                                                                     | Hole Type       |        | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Status                 | Final              |             |              |                         |
| Sampling and In Situ Testing                                                        |                 |        |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                    | Groundwater |              |                         |
| Depth (m)                                                                           | Type            | No.    | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Depth (Thickness) (m)  | Level (m Datum)    | Legend      | Water Strike | Backfill / Installation |
| 0.00 - 0.10<br>0.10 - 0.20                                                          | D<br>D          | 1<br>2 |                          |                            | TOPSOIL: dark brown, slightly silty, slightly gravelly sand. With frequent rootlets (<8x8 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint.<br>[TOPSOIL] [SAND]                                                                                                                                                                                                                                                                                                                                                       | (0.10)<br>0.10         | 20.38              |             |              |                         |
| 1.00 - 1.10                                                                         | D               | 3      |                          | 1                          | MADE GROUND: (soft and firm), greyish brown, locally mottled blue and grey, slightly sandy, slightly gravelly clay. With occasional pockets (<10x50 mm) of coal. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick, coal, concrete and slate.<br>[MADE GROUND] [CLAY]                                                                                                                                                                                                                                                | (1.30)                 |                    |             |              |                         |
| 1.40 - 1.50                                                                         | D               | 4      |                          |                            | MADE GROUND: brown, locally mottled orangish brown, slightly sandy, slightly gravelly, clayey silt with low cobble content. With occasional fragments of photographic film (<20x30x35 mm) (2%). With rare fragments of glass (<3x7 mm) (<1%), metal (<8x30x40 mm) (<1%) and wood debris (<3x10x15 mm) (D1) (<1%). With rare pockets (<10x10 mm) of clinker (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick, concrete and slate. Cobbles (<60x70x125 mm) are subangular of concrete.<br>[MADE GROUND] [SILT] | 1.40<br>(0.40)<br>1.80 | 19.08<br><br>18.68 |             |              |                         |
|                                                                                     |                 |        |                          |                            | End of Borehole at 1.80 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                    |             |              |                         |
| Notes                                                                               |                 |        |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                    |             |              |                         |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |        |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                    |             |              |                         |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |        |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Print Date             |                    | 26/02/2020  |              |                         |

|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|--------------------|------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                |                        | Location ID        |                              |                              |                                                         |                                                      |               |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                |                        | <b>HEP-BH-2486</b> |                              |                              |                                                         |                                                      |               |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
|                                                                                     | Coordinates (m)                  |                       | E502807.26 N175974.51    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                | 20.48                  |                    | Sheet 1 of 1                 |                              |                                                         |                                                      |               |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                |                        | Status             |                              | Final                        |                                                         |                                                      |               |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By          | Remarks                      |                              |                                                         |                                                      |               |
| 0.00<br>1.20                                                                        | 1.20<br>1.80                     | IP<br>CP              | 20/06/2019<br>20/06/2019 | 20/06/2019<br>20/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                | CT<br>CT               | OJ<br>OJ           |                              |                              |                                                         |                                                      |               |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                |                        |                    |                              |                              | Core Details                                            |                                                      |               |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m)                                         | Diameter (mm) |
| 20/06/2019<br>20/06/2019<br>20/06/2019                                              | 08:00:00<br>09:00:00<br>18:00:00 | 0.00<br>1.20<br>1.80  | 1.70                     | Dry<br>Dry               |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        | Casing Diameter (mm)                                                                                                                                                              |                |                        |                    |                              |                              |                                                         |                                                      |               |
| 1.80                                                                                |                                  | 200                   |                          | 1.70                     |                        | 200                                                                                                                                                                               |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        | Tool / Remark                                                                                                                                                                     |                |                        |                    |                              |                              |                                                         |                                                      |               |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Water Strike                                                                        |                                  |                       |                          |                          |                        | Water Added                                                                                                                                                                       |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)         | Depth To (m)                                                                                                                                                                      |                |                        |                    |                              |                              |                                                         |                                                      |               |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                   |                                                                                                                                                                                   |                |                        |                    | Backfill                     |                              |                                                         |                                                      |               |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)               | Depth To (m)                 | Backfill Material                                       | Date                                                 |               |
| GMP                                                                                 | 1                                | 0.50                  | 1.80                     | 20/06/2019               | Pipe1<br>Pipe1         | 0.13<br>0.70                                                                                                                                                                      | 0.70<br>1.80   | 50<br>50               | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>0.50 | 0.05<br>0.20<br>0.50<br>1.80 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 20/06/2019<br>20/06/2019<br>20/06/2019<br>20/06/2019 |               |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                    | OSGB                         |                              |                                                         |                                                      |               |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    | Print Date                   |                              | 26/02/2020                                              |                                                      |               |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2486</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502807.26 N175974.51                   | Ground Elevation (m Datum)        | 20.48                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 |                  | Final           |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------|-------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                 | Location ID           |                 |            |              |                         |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                 | <b>HEP-BH-2488</b>    |                 |            |              |                         |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     | Coordinates (m) |     | E502919.15 N175854.27    | Ground Elevation (m Datum) |                                                                                                                                                                                                                                                                                 | 20.49                 | Sheet 1 of 1    |            |              |                         |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                 | Status                | Final           |            |              |                         |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                 |                       |                 |            | Groundwater  |                         |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                             | Depth (Thickness) (m) | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |
| 0.10 - 0.15                                                                         | D               | 1   |                          |                            | TOPSOIL: brown silt. With frequent rootlets (<1x10 mm).<br>[TOPSOIL] [SILT]<br>MADE GROUND: (very soft), slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, chalk and brick.<br>[MADE GROUND] [CLAY] | (0.10)<br>0.10        | 20.39           |            |              |                         |
| 1.05 - 1.10                                                                         | D               | 2   |                          | 1                          | Between 1.00 m and 1.20 m; gravelly. Gravel is subangular and subrounded, fine to coarse of flint.                                                                                                                                                                              | (1.40)                |                 |            |              |                         |
| 2.00 - 2.05                                                                         | D               | 3   |                          | 2                          | MADE GROUND: (soft), dark greyish brown, slightly sandy, gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]<br>Between 2.00 m and 3.00 m; brick gravel is absent.                           | 1.50<br>(1.50)        | 18.99           |            |              |                         |
|                                                                                     |                 |     |                          | 3                          | End of Borehole at 3.00 m                                                                                                                                                                                                                                                       | 3.00                  | 17.49           |            |              |                         |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                 | Print Date            |                 | 26/02/2020 |              |                         |

|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|--------------------|------------------------------|------------------------------|---------------------------------------------------------|--------------|------------------------------------------------------|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                |                        | Location ID        |                              |                              |                                                         |              |                                                      |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                |                        | <b>HEP-BH-2488</b> |                              |                              |                                                         |              |                                                      |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
|                                                                                     | Coordinates (m)                  |                       | E502919.15 N175854.27    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                | 20.49                  |                    | Sheet 1 of 1                 |                              |                                                         |              |                                                      |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                |                        | Status             |                              | Final                        |                                                         |              |                                                      |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By          | Remarks                      |                              |                                                         |              |                                                      |
| 0.00<br>1.20                                                                        | 1.20<br>3.00                     | IP<br>CP              | 27/06/2019<br>27/06/2019 | 27/06/2019<br>27/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                | SB<br>SB               | JJ<br>JJ           |                              |                              |                                                         |              |                                                      |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                |                        |                    |                              |                              | Core Details                                            |              |                                                      |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m) | Diameter (mm)                                        |
| 27/06/2019<br>27/06/2019<br>27/06/2019                                              | 08:45:00<br>09:30:00<br>18:00:00 | 0.00<br>1.20<br>3.00  | 1.60                     | Dry<br>Dry               |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        | Casing Diameter (mm)                                                                                                                                                              |                |                        |                    |                              |                              |                                                         |              |                                                      |
| 3.00                                                                                |                                  | 200                   |                          | 1.60                     |                        | 200                                                                                                                                                                               |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        | Tool / Remark                                                                                                                                                                     |                |                        |                    |                              |                              |                                                         |              |                                                      |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Water Strike                                                                        |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Strike At (m)                                                                       |                                  | Rise To (m)           |                          | Time Elapsed (mins)      |                        | Casing Depth (m)                                                                                                                                                                  |                | Depth Sealed (m)       |                    | Depth From (m)               |                              | Depth To (m)                                            |              |                                                      |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                   |                                                                                                                                                                                   |                |                        |                    | Backfill                     |                              |                                                         |              |                                                      |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)               | Depth To (m)                 | Backfill Material                                       |              | Date                                                 |
| GMP                                                                                 | 1                                | 1.00                  | 3.00                     | 27/06/2019               | Pipe1<br>Pipe1         | 0.10<br>1.20                                                                                                                                                                      | 1.20<br>3.00   | 50<br>50               | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>1.00 | 0.05<br>0.20<br>1.00<br>3.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill |              | 27/06/2019<br>27/06/2019<br>27/06/2019<br>27/06/2019 |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |              |                                                      |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                    | OSGB                         |                              |                                                         |              |                                                      |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    | Print Date                   |                              | 26/02/2020                                              |              |                                                      |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2488</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502919.15 N175854.27                   | Ground Elevation (m Datum)        | 20.49                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 | Final            |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                                                                  | Location ID           |                 |             |                                                                                     |                                                                                     |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                                                                  | <b>HEP-BH-2489</b>    |                 |             |                                                                                     |                                                                                     |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
|                                                                                     | Coordinates (m) |     | E502860.63 N176031.47    | Ground Elevation (m Datum) | 20.42                                                                                                                                                                                                                                                                                                                                                                                            | Sheet 1 of 1          |                 |             |                                                                                     |                                                                                     |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                                                                  | Status                | Final           |             |                                                                                     |                                                                                     |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 | Groundwater |                                                                                     |                                                                                     |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                              | Depth (Thickness) (m) | Level (m Datum) | Legend      | Water Strike                                                                        | Backfill / Installation                                                             |
| 0.00 - 0.10                                                                         | D               | 1   |                          |                            | MADE GROUND: greyish brown, sandy gravel with high cobble content. With rare fragments of ceramic tile (<10x15 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<75x105x110 mm) are subangular of brick and concrete. IDT engineer noted rare fragments of possible asbestos tile and glass.<br>[MADE GROUND] [GRAVEL] | (1.70)                |                 |             |                                                                                     |                                                                                     |
| 1.00 - 1.10                                                                         | D               | 2   |                          | 1                          |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
| 1.70 - 1.80                                                                         | D               | 3   |                          | 2                          | MADE GROUND: (soft and firm), greyish brown, slightly sandy, gravelly clay with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<70x85x85 mm) are angular and subangular of brick. IDT engineer noted rare fragments of clinker.<br>[MADE GROUND] [CLAY]                                                     | 1.70 (0.20)<br>1.90   | 18.72<br>18.52  |             |  |  |
|                                                                                     |                 |     |                          | 3                          |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                 |             |                                                                                     |                                                                                     |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                  | Print Date            |                 | 26/02/2020  |                                                                                     |                                                                                     |



|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|--------------------|--------------------------------------|--------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                |                        | Location ID        |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                |                        | <b>HEP-BH-2489</b> |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502860.63 N176031.47    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                | 20.42                  |                    | Sheet 1 of 1                         |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                |                        | Status             |                                      | Final                                |                                                                      |                                                                    |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By          | Remarks                              |                                      |                                                                      |                                                                    |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>1.90                     | IP<br>CP              | 19/06/2019<br>19/06/2019 | 19/06/2019<br>19/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                | CT<br>CT               | OJ<br>OJ           |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                |                        |                    |                                      | Core Details                         |                                                                      |                                                                    |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                         | Run Time (hh:mm)                     | Depth From (m)                                                       | Depth To (m)                                                       | Diameter (mm) |                      |  |
| 19/06/2019<br>19/06/2019<br>19/06/2019                                              | 08:00:00<br>09:00:00<br>12:00:00 | 0.00<br>1.20<br>1.90  | 1.80                     | Dry<br>1.80              |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               | Casing Diameter (mm) |  |
| 1.90                                                                                |                                  | 250                   |                          | 1.80                     |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               | 250                  |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                        | Water Added                                                                                                                                                                       |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)         | Depth To (m)                                                                                                                                                                      |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| 1.90                                                                                | 1.80                             | 20                    | 1.80                     |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                   |                                                                                                                                                                                   |                |                        |                    | Backfill                             |                                      |                                                                      |                                                                    |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)                       | Depth To (m)                         | Backfill Material                                                    | Date                                                               |               |                      |  |
| GMP                                                                                 | 1                                | 0.50                  | 1.70                     | 19/06/2019               | Pipe1<br>Pipe1         | 0.21<br>0.70                                                                                                                                                                      | 0.70<br>1.70   | 50<br>50               | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>0.50<br>1.70 | 0.05<br>0.20<br>0.50<br>1.70<br>1.90 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 19/06/2019<br>19/06/2019<br>19/06/2019<br>19/06/2019<br>19/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                    | OSGB                                 |                                      |                                                                      |                                                                    |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    | Print Date                           |                                      | 26/02/2020                                                           |                                                                    |               |                      |  |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2489</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502860.63 N176031.47                   | Ground Elevation (m Datum)        | 20.42                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 | Final            |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                     |                 |     |                          |                |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--|
|    | Contract Name   |     | HAL Airport Expansion    |                |                                                                                                                                                                                                                          | Location ID           |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     | Client          |     | Heathrow Airport Limited |                |                                                                                                                                                                                                                          | HEP-BH-2490           |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     | Fugro Reference |     | G190012U                 |                |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     | Coordinates (m) |     | E502769.97               | N175880.57     | Ground Elevation (m Datum)                                                                                                                                                                                               | 19.73                 | Sheet 1 of 1    |                                                                                     |              |                                                                                     |  |
|                                                                                     | Hole Type       |     | Cable Percussion         |                |                                                                                                                                                                                                                          | Status                |                 | Final                                                                               |              |                                                                                     |  |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              | Groundwater                                                                         |  |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)      | Strata Descriptions                                                                                                                                                                                                      | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                              | Water Strike | Backfill / Installation                                                             |  |
| 0.00 - 0.10                                                                         | D               | 1   |                          |                | TOPSOIL: dark brown, slightly sandy, slightly gravelly, clayey silt. With frequent rootlets (<5x8 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint.                                | (0.40)                |                 |  |              |  |  |
| 0.40 - 0.50                                                                         | D               | 2   |                          |                | [TOPSOIL] [SILT]<br>MADE GROUND: (very soft and soft), orangish brown, slightly sandy, gravelly clay. With rare rootlets (<10x10 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint. | 0.40                  | 19.33           |  |              |  |  |
| 1.00 - 1.10                                                                         | D               | 3   |                          | 1              | [MADE GROUND] [CLAY]                                                                                                                                                                                                     | (1.10)                |                 |  |              |  |  |
| 1.50 - 1.60                                                                         | D               | 4   |                          |                | MADE GROUND: (firm), dark grey and brown, slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint.                                                     | 1.50                  | 18.23           |  |              |  |  |
| 2.50 - 2.60                                                                         | D               | 5   |                          | 2              | [MADE GROUND] [CLAY]                                                                                                                                                                                                     | (1.50)                |                 |  |              |  |  |
|                                                                                     |                 |     |                          | 3              | End of Borehole at 3.00 m                                                                                                                                                                                                | 3.00                  | 16.73           |  |              |  |  |
|                                                                                     |                 |     |                          | 4              |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     |                 |     |                          | 5              |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     |                 |     |                          | 6              |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     |                 |     |                          | 7              |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     |                 |     |                          | 8              |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     |                 |     |                          | 9              |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
| Notes                                                                               |                 |     |                          |                |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                |                                                                                                                                                                                                                          |                       |                 |                                                                                     |              |                                                                                     |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                |                                                                                                                                                                                                                          | Print Date            |                 | 26/02/2020                                                                          |              |                                                                                     |  |

|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                            |                                                                                                                                                                                   |                | Location ID            |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                            |                                                                                                                                                                                   |                | <b>HEP-BH-2490</b>     |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502769.97 N175880.57    |                          | Ground Elevation (m Datum) |                                                                                                                                                                                   | 19.73          |                        | Sheet 1 of 1     |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                            |                                                                                                                                                                                   |                | Status                 |                  | Final                        |                              |                                                         |                                                      |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By        | Remarks                      |                              |                                                         |                                                      |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>3.00                     | IP<br>CP              | 25/06/2019<br>25/06/2019 | 25/06/2019<br>25/06/2019 | Hand-dug<br>Dando 3000     |                                                                                                                                                                                   |                | CT<br>CT               | OJ<br>OJ         |                              |                              |                                                         |                                                      |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                            | Rotary Details                                                                                                                                                                    |                |                        |                  |                              | Core Details                 |                                                         |                                                      |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%) | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m)                                         | Diameter (mm) |                      |  |
| 25/06/2019<br>25/06/2019<br>25/06/2019                                              | 08:00:00<br>10:00:00<br>13:00:00 | 0.00<br>1.20<br>3.00  | 1.50                     | Dry<br>Dry               |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               | Casing Diameter (mm) |  |
| 3.00                                                                                |                                  | 200                   |                          | 1.50                     |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               | 200                  |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                            | Water Added                                                                                                                                                                       |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)             | Depth To (m)                                                                                                                                                                      |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                            | General Remarks                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          |                            | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          |                            | Pipe                                                                                                                                                                              |                |                        |                  |                              | Backfill                     |                                                         |                                                      |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type             | Depth From (m)               | Depth To (m)                 | Backfill Material                                       | Date                                                 |               |                      |  |
| GMP                                                                                 | 1                                | 1.00                  | 3.00                     | 25/06/2019               | Pipe1<br>Pipe1             | 0.21<br>1.00                                                                                                                                                                      | 1.00<br>3.00   | 50<br>50               | Plain<br>Slotted | 0.00<br>0.05<br>0.20<br>1.00 | 0.05<br>0.20<br>1.00<br>3.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 25/06/2019<br>25/06/2019<br>25/06/2019<br>25/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                  | OSGB                         |                              |                                                         |                                                      |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  | Print Date                   |                              | 26/02/2020                                              |                                                      |               |                      |  |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2490</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502769.97 N175880.57                   | Ground Elevation (m Datum)        | 19.73                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 |                  | Final           |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|--------|--------------|-------------------------|--|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                                                                | Location ID           |                 |        |              |                         |  |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                                                                | HEP-BH-2492           |                 |        |              |                         |  |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
|                                                                                     | Coordinates (m) |     | E502849.25 N176189.96    | Ground Elevation (m Datum) | 20.75                                                                                                                                                                                                                                                                                                                                                                                          | Sheet 1 of 1          |                 |        |              |                         |  |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                                                                | Status                |                 | Final  |              |                         |  |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              | Groundwater             |  |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                            | Depth (Thickness) (m) | Level (m Datum) | Legend | Water Strike | Backfill / Installation |  |
| 0.00 - 0.10                                                                         | D               | 1   |                          |                            | MADE GROUND: greyish brown, sandy gravel with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick, clinker, coal and concrete. Cobble (<85x107x110 mm) is subangular of concrete. [MADE GROUND] [GRAVEL]                                                                                                                                     | (0.70)                |                 |        |              |                         |  |
| 0.70 - 0.80                                                                         | D               | 2   |                          |                            | Between 0.60 m and 0.70 m; slightly clayey.                                                                                                                                                                                                                                                                                                                                                    | 0.70                  | 20.05           |        |              |                         |  |
| 1.60 - 1.70                                                                         | D               | 3   |                          | 1                          | MADE GROUND: (very soft and soft), dark grey, slightly sandy, gravelly, silty clay with low cobble content. With rare fragments of clinker (<5x15 mm) (<1%), wood debris (<30x52 mm) (<1%) and wire wool (<1x1 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete. Cobble (<85x102x110 mm) is subangular of brick. [MADE GROUND] [CLAY] | (0.90)                |                 |        |              |                         |  |
| 2.60 - 2.70                                                                         | D               | 4   |                          | 2                          | MADE GROUND: (soft and firm), dark grey and brown, locally discoloured green, slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is subangular and angular, fine to coarse of flint and brick. [MADE GROUND] [CLAY]                                                                                                                                                        | (1.40)                |                 |        |              |                         |  |
|                                                                                     |                 |     |                          | 3                          | End of Borehole at 3.00 m                                                                                                                                                                                                                                                                                                                                                                      | 3.00                  | 17.75           |        |              |                         |  |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                 |        |              |                         |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       | Print Date      |        | 26/02/2020   |                         |  |

|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|--------------------|------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                |                        | Location ID        |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                |                        | <b>HEP-BH-2492</b> |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502849.25 N176189.96    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                | 20.75                  |                    | Sheet 1 of 1                 |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                |                        | Status             |                              | Final                        |                                                         |                                                      |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By          | Remarks                      |                              |                                                         |                                                      |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>3.00                     | IP<br>CP              | 12/06/2019<br>12/06/2019 | 12/06/2019<br>12/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                | CT<br>CT               | OJ<br>OJ           |                              |                              |                                                         |                                                      |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                |                        |                    |                              | Core Details                 |                                                         |                                                      |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m)                                         | Diameter (mm) |                      |  |
| 12/06/2019<br>12/06/2019<br>12/06/2019                                              | 10:00:00<br>11:00:00<br>13:00:00 | 0.00<br>1.20<br>3.00  | 3.00                     |                          | Dry<br>Dry             |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               | Casing Diameter (mm) |  |
| 3.00                                                                                |                                  | 250                   |                          | 3.00                     |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               | 250                  |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                        | Water Added                                                                                                                                                                       |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)         | Depth To (m)                                                                                                                                                                      |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          |                        | Pipe                                                                                                                                                                              |                |                        |                    |                              | Backfill                     |                                                         |                                                      |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)               | Depth To (m)                 | Backfill Material                                       | Date                                                 |               |                      |  |
| GMP                                                                                 | 1                                | 0.80                  | 3.00                     | 12/06/2019               | Pipe1<br>Pipe1         | 0.17<br>1.00                                                                                                                                                                      | 1.00<br>3.00   | 50<br>50               | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>0.80 | 0.05<br>0.20<br>0.80<br>3.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 12/06/2019<br>12/06/2019<br>12/06/2019<br>12/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                    | OSGB                         |                              |                                                         |                                                      |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              | Print Date                   |                                                         | 26/02/2020                                           |               |                      |  |

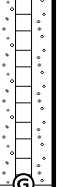
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2492</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502849.25 N176189.96                   | Ground Elevation (m Datum)        | 20.75                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 |                  | Final           |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |



|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------|-------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                                       | Location ID           |                 |            |              |                         |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                                       | HEP-BH-2495           |                 |            |              |                         |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     | Coordinates (m) |     | E502792.41 N176236.53    | Ground Elevation (m Datum) | 22.35                                                                                                                                                                                                                                                                                                                                                                 | Sheet 1 of 1          |                 |            |              |                         |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                                       | Status                | Final           |            |              |                         |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            | Groundwater  |                         |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                   | Depth (Thickness) (m) | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |
| 0.20 - 0.25                                                                         | D               | 1   |                          |                            | MADE GROUND: (very soft), brown, slightly sandy, gravelly clay. Sand is medium and coarse. Gravel is subangular and subrounded, fine to coarse of flint, chalk and brick.<br>[MADE GROUND] [CLAY]<br>Between 0.00 m and 1.50 m; IDT engineer noted rare fragments of black plastic (<1%).<br>Between 0.40 m and 1.20 m; with some fragments of glass (<5x20 mm) (5%). | (2.00)                |                 |            |              |                         |
| 1.20 - 1.75                                                                         | D               | 2   |                          | 1                          | At 1.50 m; IDT engineer noted a fragment of rubber mat (<20x200x200 mm).<br>Between 1.50 m and 2.00 m; IDT engineer noted rare fragments of black wood debris (D2) (<1%).                                                                                                                                                                                             |                       |                 |            |              |                         |
| 2.00 - 2.05                                                                         | D               | 3   |                          | 2                          | MADE GROUND: (very soft), black, sandy, gravelly clay. With some fragments of brick (<30x45x100 mm) (7%). With occasional fragments of glass (<7x40 mm) (3%). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, brick and concrete.<br>[MADE GROUND] [CLAY]                                                                           | 2.00<br>(1.00)        | 20.35           |            |              |                         |
|                                                                                     |                 |     |                          | 3                          | End of Borehole at 3.00 m                                                                                                                                                                                                                                                                                                                                             | 3.00                  | 19.35           |            |              |                         |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                       | Print Date            |                 | 27/02/2020 |              |                         |

|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|------------------|------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                            |                                                                                                                                                                                   | Location ID        |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                            |                                                                                                                                                                                   | <b>HEP-BH-2495</b> |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502792.41 N176236.53    |                          | Ground Elevation (m Datum) |                                                                                                                                                                                   | 22.35              |                        | Sheet 1 of 1     |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                            |                                                                                                                                                                                   | Status             |                        | Final            |                              |                              |                                                         |                                                      |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel                                                                                                                                                                       | Core Bit           | Drilling Crew          | Logged By        | Remarks                      |                              |                                                         |                                                      |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>3.00                     | IP<br>CP              | 19/06/2019<br>19/06/2019 | 19/06/2019<br>19/06/2019 | Hand-dug<br>Dando 3000     |                                                                                                                                                                                   |                    | SB<br>SB               | JJ<br>JJ         |                              |                              |                                                         |                                                      |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                            | Rotary Details                                                                                                                                                                    |                    |                        |                  | Core Details                 |                              |                                                         |                                                      |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)                                                                                                                                                                    | Depth To (m)       | Flush Type             | Flush Return (%) | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m)                                         | Diameter (mm) |                      |  |
| 19/06/2019<br>19/06/2019<br>19/06/2019                                              | 09:00:00<br>10:00:00<br>18:00:00 | 0.00<br>1.20<br>3.00  | 3.00                     | Dry<br>2.80              |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               | Casing Diameter (mm) |  |
| 3.00                                                                                |                                  | 200                   |                          | 3.00                     |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               | 200                  |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               | Tool / Remark        |  |
| 1.30                                                                                |                                  | 1.70                  |                          | 01:30                    |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                            | Water Added                                                                                                                                                                       |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)             | Depth To (m)                                                                                                                                                                      |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| 2.80                                                                                | 2.80                             | 15                    | 2.80                     |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                            | General Remarks                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                       |                                                                                                                                                                                   |                    |                        |                  | Backfill                     |                              |                                                         |                                                      |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)                                                                                                                                                                     | Base Depth (m)     | Diameter (mm)          | Type             | Depth From (m)               | Depth To (m)                 | Backfill Material                                       | Date                                                 |               |                      |  |
| GMP                                                                                 | 1                                | 1.00                  | 3.00                     | 19/06/2019               | Pipe1<br>Pipe1             | 0.11<br>1.20                                                                                                                                                                      | 1.20<br>3.00       | 50<br>50               | Plain<br>Slotted | 0.00<br>0.05<br>0.20<br>1.00 | 0.05<br>0.20<br>1.00<br>3.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 19/06/2019<br>19/06/2019<br>19/06/2019<br>19/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                              |                              |                                                         |                                                      |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined                                                                                                                                                           |                    | Grid Coordinate System |                  | OSGB                         |                              |                                                         |                                                      |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  | Print Date                   |                              | 27/02/2020                                              |                                                      |               |                      |  |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2495</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502792.41 N176236.53                   | Ground Elevation (m Datum)        | 22.35                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 | Final            |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 27/02/2020       |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                        | Location ID           |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                        | <b>HEP-BH-2496</b>    |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Coordinates (m) |     | E502785.28 N176382.28    | Ground Elevation (m Datum) | 21.32                                                                                                                                                                                                                                                                                                                  | Sheet 1 of 1          |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                        | Status                | Final           |                                                                                     |              |                                                                                     |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     | Groundwater  |                                                                                     |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                    | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                              | Water Strike | Backfill / Installation                                                             |
| 0.20 - 0.25                                                                         | D               | 1   |                          |                            | TOPSOIL: brown silt. With frequent rootlets (<1x5 mm).<br>[TOPSOIL] [SILT]<br>MADE GROUND: (very soft), brown, slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]<br>Between 0.45 m and 1.30 m; gravelly. | (0.09)<br>0.09        | 21.23           |  |              |  |
|                                                                                     |                 |     |                          | 1                          |                                                                                                                                                                                                                                                                                                                        | (1.21)                |                 |  |              |  |
| 1.30 - 1.35                                                                         | D               | 2   |                          |                            | MADE GROUND: (soft and firm), dark greenish brown, slightly sandy, gravelly clay with low cobble content. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick. Cobbles (<45x60x110 mm) are of brick.<br>[MADE GROUND] [CLAY]                                                | 1.30                  | 20.02           |  |              |  |
|                                                                                     |                 |     |                          | 2                          |                                                                                                                                                                                                                                                                                                                        | (1.20)                |                 |                                                                                     |              |  |
|                                                                                     |                 |     |                          |                            | End of Borehole at 2.50 m                                                                                                                                                                                                                                                                                              | 2.50                  | 18.82           |                                                                                     | ▼            | Ⓢ                                                                                   |
|                                                                                     |                 |     |                          | 3                          |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                        | Print Date            |                 | 27/02/2020                                                                          |              |                                                                                     |

|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|------------------|-------------------------------|------------------------------|--------------------------------------------------------------|------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                            |                                                                                                                                                                                   | Location ID        |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                            |                                                                                                                                                                                   | <b>HEP-BH-2496</b> |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502785.28 N176382.28    |                          | Ground Elevation (m Datum) |                                                                                                                                                                                   | 21.32              |                        | Sheet 1 of 1     |                               |                              |                                                              |                                                      |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                            |                                                                                                                                                                                   | Status             |                        | Final            |                               |                              |                                                              |                                                      |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel                                                                                                                                                                       | Core Bit           | Drilling Crew          | Logged By        | Remarks                       |                              |                                                              |                                                      |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>2.50                     | IP<br>CP              | 10/06/2019<br>10/06/2019 | 10/06/2019<br>10/06/2019 | Hand-dug<br>Dando 3000     |                                                                                                                                                                                   |                    | SB<br>SB               | JJ<br>JJ         |                               |                              |                                                              |                                                      |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                            | Rotary Details                                                                                                                                                                    |                    |                        |                  | Core Details                  |                              |                                                              |                                                      |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)                                                                                                                                                                    | Depth To (m)       | Flush Type             | Flush Return (%) | Flush Colour                  | Run Time (hh:mm)             | Depth From (m)                                               | Depth To (m)                                         | Diameter (mm) |                      |  |
| 10/06/2019<br>10/06/2019<br>10/06/2019                                              | 09:00:00<br>10:15:00<br>15:00:00 | 0.00<br>1.20<br>2.50  | 1.60                     | Dry<br>2.50              |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               | Casing Diameter (mm) |  |
| 2.50                                                                                |                                  | 200                   |                          | 1.60                     |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               | 200                  |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                            | Water Added                                                                                                                                                                       |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)             | Depth To (m)                                                                                                                                                                      |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| 2.50                                                                                |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                            | General Remarks                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Water strike at 2.50 m; groundwater not monitored.                                  |                                  |                       |                          |                          |                            | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          |                            | Pipe                                                                                                                                                                              |                    |                        |                  | Backfill                      |                              |                                                              |                                                      |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)                                                                                                                                                                     | Base Depth (m)     | Diameter (mm)          | Type             | Depth From (m)                | Depth To (m)                 | Backfill Material                                            | Date                                                 |               |                      |  |
| GMP                                                                                 | 1                                | 1.00                  | 2.50                     | 10/06/2019               | Pipe1<br>Pipe1             | 0.04<br>1.20                                                                                                                                                                      | 1.20<br>2.50       | 50<br>50               | Plain<br>Slotted | -0.24<br>0.00<br>0.20<br>1.00 | 0.00<br>0.20<br>1.00<br>2.50 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 10/06/2019<br>10/06/2019<br>10/06/2019<br>10/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  |                               |                              |                                                              |                                                      |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined                                                                                                                                                           |                    | Grid Coordinate System |                  | OSGB                          |                              |                                                              |                                                      |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                    |                        |                  | Print Date                    |                              | 27/02/2020                                                   |                                                      |               |                      |  |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2496</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502785.28 N176382.28                   | Ground Elevation (m Datum)        | 21.32                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 | Final            |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 27/02/2020       |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Location ID           |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>HEP-BH-2497</b>    |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Coordinates (m) |     | E502805.80 N176145.73    | Ground Elevation (m Datum) | 21.27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sheet 1 of 1          |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Status                | Final           |                                                                                     |              |                                                                                     |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     | Groundwater  |                                                                                     |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                              | Water Strike | Backfill / Installation                                                             |
| 0.15 - 0.25                                                                         | D               | 1   | < 0.1 ppm                | 0.15                       | MADE GROUND: (soft and firm), brown, slightly sandy, slightly gravelly clay. With occasional fragments of metal (<2x150 mm) (2%). With rare fragments of glass (<2x30x40 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick, and concrete.                                                                                                                                                                                         | (0.25)                | 21.02           |  |              |  |
| 0.50 - 0.60                                                                         | D               | 2   |                          | 0.50                       | [MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.25                  |                 |                                                                                     |              |                                                                                     |
| 0.90 - 1.00                                                                         | D               | 3   |                          | 0.60                       | MADE GROUND: (soft), dark brown and black, slightly sandy, slightly gravelly clay. With occasional fragments of metal (<3x70x100 mm) (2%). With rare fragments of glass (<3x30x60 mm) (<1%), tile (<3x40x50 mm) (<1%) and wood debris (<30x40x70 mm) (D1) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete.                                                                                                             | (0.35)                | 20.67           |                                                                                     |              |                                                                                     |
| 1.50 - 1.60                                                                         | D               | 4   |                          | 0.90                       | [MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (0.90)                |                 |                                                                                     |              |                                                                                     |
| 1.70 - 1.80                                                                         | B               | 5   |                          | 1.50                       | MADE GROUND: (firm), black, slightly sandy, slightly gravelly clay with low cobble content. With occasional fragments of plastic (<3x70x100 mm) (2%) and glass (<2x20x30 mm) (2%). With rare fragments of wood debris (<20x40x50 mm) (D1-D2) (<1%), tile (<3x40x50 mm) (<1%) and metal (<3x60 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Cobbles (<60x120x150 mm) are subangular and subrounded of concrete. | 19.77                 |                 |                                                                                     |              |                                                                                     |
| 1.70 - 1.80                                                                         | ES              | 7   |                          | (0.50)                     | [MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
| 1.70 - 1.80                                                                         | PID             |     |                          | 2.00                       | Between 0.30 m and 0.40 m; subangular boulder (150x300x300 mm) of concrete.                                                                                                                                                                                                                                                                                                                                                                                                            | 2.00                  | 19.27           |                                                                                     |              |  |
| 1.90 - 2.00                                                                         | D               | 6   |                          | 3.00                       | MADE GROUND: (firm), black, slightly sandy, slightly gravelly clay (56%). With frequent fragments of plastic (<3x150x200 mm) (20%), and possible ACM (<3x100x150 mm) (15%). With occasional fragments of wood debris (<30x70x100 mm) (D1-D2) (5%), glass (<3x40x50 mm) (2%), and metal (<2x180 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete.                                                                     |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 4.00                       | [MADE GROUND] [WASTE, e.g. LANDFILL]                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 5.00                       | Between 1.70 m and 1.90 m; with a fragment of possible ACM tile.                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 6.00                       | End of Borehole at 2.00 m                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 7.00                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 8.00                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 9.00                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                 |                                                                                     |              |                                                                                     |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Print Date            |                 | 26/02/2020                                                                          |              |                                                                                     |

|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|-------------------------------|------------------------------|--------------------------------------------------------------|--------------|------------------------------------------------------|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                            |                                                                                                                                                                                                                                                          |                | Location ID            |                  |                               |                              |                                                              |              |                                                      |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                            |                                                                                                                                                                                                                                                          |                | <b>HEP-BH-2497</b>     |                  |                               |                              |                                                              |              |                                                      |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
|                                                                                     | Coordinates (m)                  |                       | E502805.80 N176145.73    |                          | Ground Elevation (m Datum) |                                                                                                                                                                                                                                                          | 21.27          |                        |                  |                               |                              |                                                              |              |                                                      |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                            |                                                                                                                                                                                                                                                          |                | Sheet 1 of 1           |                  |                               |                              |                                                              |              |                                                      |
|                                                                                     |                                  | Status                |                          | Final                    |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Equipment                                                                           |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel                                                                                                                                                                                                                                              | Core Bit       | Drilling Crew          | Logged By        | Remarks                       |                              |                                                              |              |                                                      |
| 0.00<br>1.20                                                                        | 1.20<br>2.00                     | IP<br>CP              | 19/06/2019<br>19/06/2019 | 19/06/2019<br>24/06/2019 | Hand-dug<br>Dando 3000     |                                                                                                                                                                                                                                                          |                | JT<br>JT               | RS<br>RS         |                               |                              |                                                              |              |                                                      |
| Progress                                                                            |                                  |                       |                          |                          |                            | Rotary Details                                                                                                                                                                                                                                           |                |                        |                  |                               | Core Details                 |                                                              |              |                                                      |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)                                                                                                                                                                                                                                           | Depth To (m)   | Flush Type             | Flush Return (%) | Flush Colour                  | Run Time (hh:mm)             | Depth From (m)                                               | Depth To (m) | Diameter (mm)                                        |
| 19/06/2019<br>19/06/2019<br>19/06/2019                                              | 08:00:00<br>10:00:00<br>18:00:00 | 0.00<br>1.20<br>2.00  | 2.00                     |                          | Dry<br>Dry                 |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                            | Casing Diameter (mm)                                                                                                                                                                                                                                     |                |                        |                  |                               |                              |                                                              |              |                                                      |
| 2.00                                                                                |                                  | 200                   |                          | 2.00                     |                            | 200                                                                                                                                                                                                                                                      |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                            | Tool / Remark                                                                                                                                                                                                                                            |                |                        |                  |                               |                              |                                                              |              |                                                      |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Water Strike                                                                        |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Strike At (m)                                                                       |                                  | Rise To (m)           |                          | Time Elapsed (mins)      |                            | Casing Depth (m)                                                                                                                                                                                                                                         |                | Depth Sealed (m)       |                  | Depth From (m)                |                              | Depth To (m)                                                 |              |                                                      |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                            | General Remarks                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          |                            | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. Possible asbestos containing material (ACM) between 1.50 m and 2.00 m. |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Installation                                                                        |                                  |                       |                          |                          |                            | Pipe                                                                                                                                                                                                                                                     |                |                        |                  |                               | Backfill                     |                                                              |              |                                                      |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)                                                                                                                                                                                                                                            | Base Depth (m) | Diameter (mm)          | Type             | Depth From (m)                | Depth To (m)                 | Backfill Material                                            |              | Date                                                 |
| GMP                                                                                 | 1                                | 0.90                  | 2.00                     | 24/06/2019               | Pipe1<br>Pipe1             | 0.05<br>1.00                                                                                                                                                                                                                                             | 1.00<br>2.00   | 50<br>50               | Plain<br>Slotted | -0.29<br>0.00<br>0.20<br>0.90 | 0.00<br>0.20<br>0.90<br>2.00 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill |              | 24/06/2019<br>24/06/2019<br>24/06/2019<br>24/06/2019 |
| Notes                                                                               |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  |                               |                              |                                                              |              |                                                      |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined                                                                                                                                                                                                                                  |                | Grid Coordinate System |                  | OSGB                          |                              |                                                              |              |                                                      |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                            |                                                                                                                                                                                                                                                          |                |                        |                  | Print Date                    |                              | 26/02/2020                                                   |              |                                                      |



|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            |                                                        | Location ID        |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            |                                                        | <b>HEP-BH-2497</b> |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                    |                 |
|                                                                                     | Coordinates (m) |                                            | E502805.80 N176145.73                   | Ground Elevation (m Datum)        | 21.27                                      |                                                        |                    |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            |                                                        | Sheet 1 of 1       |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            | Status                                                 | Final              |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m)   | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                    |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm)   |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            | 1.70                                                   | < 0.1              |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020         |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|------------|--------------|-------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                       | Location ID            |                 |            |              |                         |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                       | HEP-BH-2498            |                 |            |              |                         |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
|                                                                                     | Coordinates (m) |     | E502818.08 N176343.89    | Ground Elevation (m Datum) | 21.90                                                                                                                                                                                                                                                                                                                                                 | Sheet 1 of 1           |                 |            |              |                         |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                       | Status                 | Final           |            |              |                         |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            | Groundwater  |                         |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                   | Depth (Thickness) (m)  | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |
| 0.30 - 0.35                                                                         | D               | 1   |                          |                            | MADE GROUND: (soft), dark brown, slightly gravelly clay with medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of brick and concrete. Cobbles (<50x80x220 mm) are subangular of brick.<br>[MADE GROUND] [CLAY]<br>Between 0.40 m and 1.20 m; brick cobbles absent.<br>Between 0.80 m and 1.20 m; (firm). | (1.20)                 |                 |            |              |                         |
| 1.20 - 1.25                                                                         | D               | 2   |                          | 1                          | MADE GROUND: (soft and firm), black mottled dark brown, slightly sandy, gravelly clay. With fragments of white plastic (<5x5 mm). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]                                                                                                 | 1.20<br>(0.90)         | 20.70           |            |              |                         |
| 2.10 - 2.15                                                                         | D               | 3   |                          | 2                          | MADE GROUND: (very soft and soft), black, slightly gravelly, sandy clay. With some pockets (<10x10 mm) of yellow, fine to coarse sand. With some metal nails (<10x35 mm). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]                                                     | 2.10<br>(0.20)<br>2.30 | 19.80<br>19.60  |            |              |                         |
|                                                                                     |                 |     |                          | 3                          | End of Borehole at 2.30 m                                                                                                                                                                                                                                                                                                                             |                        |                 |            |              |                         |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                       |                        |                 |            |              |                         |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                       |                        | Print Date      | 26/02/2020 |              |                         |

|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|--------------------|------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                |                        | Location ID        |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                |                        | <b>HEP-BH-2498</b> |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502818.08 N176343.89    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                | 21.90                  |                    | Sheet 1 of 1                 |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                |                        | Status             |                              | Final                        |                                                         |                                                      |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By          | Remarks                      |                              |                                                         |                                                      |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>2.30                     | IP<br>CP              | 13/06/2019<br>13/06/2019 | 13/06/2019<br>13/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                | SB<br>SB               | JJ<br>JJ           |                              |                              |                                                         |                                                      |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                |                        |                    |                              |                              | Core Details                                            |                                                      |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m)                                         | Diameter (mm) |                      |  |
| 13/06/2019<br>13/06/2019<br>13/06/2019                                              | 09:30:00<br>10:30:00<br>15:15:00 | 0.00<br>1.20<br>2.30  | 1.60                     | Dry<br>Dry               |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               | Casing Diameter (mm) |  |
| 2.30                                                                                |                                  | 200                   |                          | 1.60                     |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               | 200                  |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                        | Water Added                                                                                                                                                                       |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)         | Depth To (m)                                                                                                                                                                      |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          |                        | Pipe                                                                                                                                                                              |                |                        |                    |                              | Backfill                     |                                                         |                                                      |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)               | Depth To (m)                 | Backfill Material                                       | Date                                                 |               |                      |  |
| GMP                                                                                 | 1                                | 1.00                  | 2.30                     | 13/06/2019               | Pipe1<br>Pipe1         | 0.10<br>1.20                                                                                                                                                                      | 1.20<br>2.30   | 50<br>50               | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>1.00 | 0.05<br>0.20<br>1.00<br>2.30 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 13/06/2019<br>13/06/2019<br>13/06/2019<br>13/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              |                              |                                                         |                                                      |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                    | OSGB                         |                              |                                                         |                                                      |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                              | Print Date                   |                                                         | 26/02/2020                                           |               |                      |  |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2498</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502818.08 N176343.89                   | Ground Elevation (m Datum)        | 21.90                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 |                  | Final           |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|-----------------------------------------------------------------------------------|------|-----|--------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------|--|
|  |      |     |              | Contract Name   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     | HAL Airport Expansion      |                                                                                     |                 |                                                                                     | Location ID  |                                                                                     |             |  |
|                                                                                   |      |     |              | Client          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     | Heathrow Airport Limited   |                                                                                     |                 |                                                                                     | HEP-BH-2499  |                                                                                     |             |  |
|                                                                                   |      |     |              | Fugro Reference |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     | G190012U                   |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              | Coordinates (m) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E502893.75 N176246.97 |                                                                                     | Ground Elevation (m Datum) |                                                                                     | 20.73           |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              | Hole Type       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     | Cable Percussion           |                                                                                     |                 |                                                                                     | Status       |                                                                                     | Final       |  |
| Sampling and In Situ Testing                                                      |      |     |              | Strata Details  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     | Groundwater |  |
| Depth (m)                                                                         | Type | No. | Test Results | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                     |                            | Depth (Thickness) (m)                                                               | Level (m Datum) | Legend                                                                              | Water Strike | Backfill / Installation                                                             |             |  |
| 0.20 - 0.30                                                                       | D    | 1   |              |                 | MADE GROUND: brown, gravelly sand with low cobble content. With rare fragments of tarmacadam and tile (<3x5 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<70x80x110 mm) are angular and subangular of brick.<br>[MADE GROUND] [SAND]<br><br>MADE GROUND: dark grey and brown, silty, gravelly sand with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete, with rare flint. Cobble (<70x80x80 mm) is angular of brick.<br>[MADE GROUND] [SAND]<br><br>MADE GROUND: dark grey, slightly sandy gravel. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint and occasionally brick.<br>[MADE GROUND] [GRAVEL]<br><br>End of Borehole at 1.40 m |                       |                                                                                     |                            | (0.50)                                                                              | 20.23           |  |              |  |             |  |
| 0.60 - 0.70                                                                       | D    | 2   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            | (0.70)                                                                              |                 |  |              |  |             |  |
| 1.20 - 1.30                                                                       | D    | 3   |              | 1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            | 1.20<br>(0.20)                                                                      | 19.53           |  |              |  |             |  |
|                                                                                   |      |     |              | 2               | 1.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 19.33                 |  |                            |  |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |
|                                                                                   | </   |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                                     |                            |                                                                                     |                 |                                                                                     |              |                                                                                     |             |  |

|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|---------------------------------------|--------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                            |                                                                                                                                                                                   |                | Location ID            |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                            |                                                                                                                                                                                   |                | <b>HEP-BH-2499</b>     |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502893.75 N176246.97    |                          | Ground Elevation (m Datum) |                                                                                                                                                                                   | 20.73          |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                            |                                                                                                                                                                                   |                | Status                 |                  | Final                                 |                                      |                                                                           |                                                                    |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By        | Remarks                               |                                      |                                                                           |                                                                    |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>1.40                     | IP<br>CP              | 10/06/2019<br>10/06/2019 | 10/06/2019<br>10/06/2019 | Hand-dug<br>Dando 3000     |                                                                                                                                                                                   |                | CT<br>CT               | OJ<br>OJ         |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                            | Rotary Details                                                                                                                                                                    |                |                        |                  |                                       | Core Details                         |                                                                           |                                                                    |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%) | Flush Colour                          | Run Time (hh:mm)                     | Depth From (m)                                                            | Depth To (m)                                                       | Diameter (mm) |                      |  |
| 10/06/2019<br>10/06/2019<br>10/06/2019                                              | 13:00:00<br>15:00:00<br>17:00:00 | 0.00<br>1.20<br>1.40  | 1.30                     | Dry<br>Dry               |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | Casing Diameter (mm) |  |
| 1.40                                                                                |                                  | 250                   |                          | 1.30                     |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | 250                  |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                            | Water Added                                                                                                                                                                       |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)             | Depth To (m)                                                                                                                                                                      |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                            | General Remarks                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          |                            | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          |                            | Pipe                                                                                                                                                                              |                |                        |                  |                                       | Backfill                             |                                                                           |                                                                    |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type             | Depth From (m)                        | Depth To (m)                         | Backfill Material                                                         | Date                                                               |               |                      |  |
| GMP                                                                                 | 1                                | 0.50                  | 1.20                     | 10/06/2019               | Pipe1<br>Pipe1             | -0.01<br>0.50                                                                                                                                                                     | 0.50<br>1.20   | 50<br>50               | Plain<br>Slotted | -0.42<br>0.00<br>0.20<br>0.50<br>1.20 | 0.00<br>0.20<br>0.50<br>1.20<br>1.40 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 10/06/2019<br>10/06/2019<br>10/06/2019<br>10/06/2019<br>10/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                  | OSGB                                  |                                      |                                                                           |                                                                    |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                            |                                                                                                                                                                                   |                |                        |                  | Print Date                            |                                      | 26/02/2020                                                                |                                                                    |               |                      |  |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2499</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502893.75 N176246.97                   | Ground Elevation (m Datum)        | 20.73                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 |                  | Final           |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                   | Location ID                              |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                   | HEP-BH-2500                              |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Coordinates (m) |     | E503007.71 N176190.23    | Ground Elevation (m Datum) |                                                                                                                                                                                                                                                                                                                   | 20.23                                    | Sheet 1 of 1    |                                                                                     |              |                                                                                     |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                   | Status                                   | Final           |                                                                                     |              |                                                                                     |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     | Groundwater  |                                                                                     |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                               | Depth (Thickness) (m)                    | Level (m Datum) | Legend                                                                              | Water Strike | Backfill / Installation                                                             |
| 0.00 - 0.10                                                                         | D               | 1   |                          |                            | MADE GROUND: dark grey, gravelly sand. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete.<br>[MADE GROUND] [SAND]                                                                                                                                             | (0.20)                                   | 20.03           |  |              |  |
| 0.20 - 0.30                                                                         | D               | 2   |                          |                            |                                                                                                                                                                                                                                                                                                                   | (0.20)                                   |                 |                                                                                     |              |                                                                                     |
| 1.20 - 1.30                                                                         | D               | 3   |                          | 1                          | MADE GROUND: grey and brown, sandy gravel with low cobble content. With rare fragments of tarmacadam (<10x60 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<80x100x105 mm) are subangular of brick and concrete.<br>[MADE GROUND] [GRAVEL] | (1.00)                                   |                 |                                                                                     |              |                                                                                     |
| 1.40 - 1.50                                                                         | D               | 4   |                          |                            |                                                                                                                                                                                                                                                                                                                   | 1.20<br>(0.20)<br>1.40<br>(0.10)<br>1.50 |                 |                                                                                     |              | 19.03<br>18.83<br>18.73                                                             |
|                                                                                     |                 |     |                          | 2                          | MADE GROUND: (soft), greyish brown, slightly sandy, gravelly, silty clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint with rare brick and concrete.<br>[MADE GROUND] [CLAY]                                                                                              |                                          |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 3                          | MADE GROUND: yellowish brown, slightly sandy, gravelly, clayey silt. Sand is fine to coarse. Gravel is angular and subangular, fine of flint.<br>[MADE GROUND] [SILT]                                                                                                                                             |                                          |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                   |                                          |                 |                                                                                     |              |                                                                                     |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                   | Print Date                               |                 | 26/02/2020                                                                          |              |                                                                                     |



|                                                                                     |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------|------------------------|------------------|-------------------------------|------------------------------|--------------------------------------------------------------|------------------------------------------------------|---------------|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                                                                                                                                                                                   |                         | Location ID        |                        |                  |                               |                              |                                                              |                                                      |               |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                                                                                                                                                                                   |                         | <b>HEP-BH-2500</b> |                        |                  |                               |                              |                                                              |                                                      |               |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
|                                                                                     | Coordinates (m)                  |                       | E503007.71 N176190.23    |                          | Ground Elevation (m Datum) 20.23                                                                                                                                                  |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                                                                                                                                                                                   |                         | Sheet 1 of 1       |                        |                  |                               |                              |                                                              |                                                      |               |
|                                                                                     |                                  |                       |                          |                          |                                                                                                                                                                                   | Status                  |                    | Final                  |                  |                               |                              |                                                              |                                                      |               |
| Equipment                                                                           |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment                                                                                                                                                                         | Core Barrel             | Core Bit           | Drilling Crew          | Logged By        | Remarks                       |                              |                                                              |                                                      |               |
| 0.00<br>1.20                                                                        | 1.20<br>1.50                     | IP<br>CP              | 22/05/2019<br>22/05/2019 | 22/05/2019<br>22/05/2019 | Hand-dug<br>Dando 3000                                                                                                                                                            |                         |                    | CT<br>CT               | OJ<br>OJ         |                               |                              |                                                              |                                                      |               |
| Progress                                                                            |                                  |                       |                          |                          | Rotary Details                                                                                                                                                                    |                         |                    |                        |                  | Core Details                  |                              |                                                              |                                                      |               |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                                                                                                                                                                           | Depth From (m)          | Depth To (m)       | Flush Type             | Flush Return (%) | Flush Colour                  | Run Time (hh:mm)             | Depth From (m)                                               | Depth To (m)                                         | Diameter (mm) |
| 22/05/2019<br>22/05/2019<br>22/05/2019                                              | 08:00:00<br>09:00:00<br>12:00:00 | 0.00<br>1.20<br>1.50  | 1.40                     | Dry<br>Dry               |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                                                                                                                                                                                   | Casing Diameter (mm)    |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| 1.50                                                                                |                                  | 200                   |                          | 1.40                     |                                                                                                                                                                                   | 200                     |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                                                                                                                                                                                   | Tool / Remark           |                    |                        |                  |                               |                              |                                                              |                                                      |               |
|                                                                                     |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Water Strike                                                                        |                                  |                       |                          |                          | Water Added                                                                                                                                                                       |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)                                                                                                                                                                    | Depth To (m)            |                    |                        |                  |                               |                              |                                                              |                                                      |               |
|                                                                                     |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Water Strike Remarks                                                                |                                  |                       |                          |                          | General Remarks                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Groundwater was not encountered during excavation or boring.                        |                                  |                       |                          |                          | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                                                                                                                                                                              |                         |                    |                        |                  | Backfill                      |                              |                                                              |                                                      |               |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                                                                                                                                                                                | Top Depth (m)           | Base Depth (m)     | Diameter (mm)          | Type             | Depth From (m)                | Depth To (m)                 | Backfill Material                                            | Date                                                 |               |
| GMP                                                                                 | 1                                | 1.00                  | 1.50                     | 22/05/2019               | Pipe1<br>Pipe1                                                                                                                                                                    | -0.01<br>1.00           | 1.00<br>1.50       | 50<br>50               | Plain<br>Slotted | -0.41<br>0.00<br>0.20<br>1.00 | 0.00<br>0.20<br>1.00<br>1.50 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 22/05/2019<br>22/05/2019<br>22/05/2019<br>22/05/2019 |               |
| Notes                                                                               |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  |                               |                              |                                                              |                                                      |               |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                                                                                                                                                                                   | Local Datum Not Defined |                    | Grid Coordinate System |                  | OSGB                          |                              |                                                              |                                                      |               |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                                                                                                                                                                                   |                         |                    |                        |                  | Print Date                    |                              | 26/02/2020                                                   |                                                      |               |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
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|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2500</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E503007.71 N176190.23                   | Ground Elevation (m Datum)        | 20.23                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 | Final            |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
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|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                   | Location ID           |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                   | <b>HEP-BH-2501</b>    |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Coordinates (m) |     | E503022.55 N176305.13    | Ground Elevation (m Datum) | 20.58                                                                                                                                                                                                                                                                                                                                             | Sheet 1 of 1          |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                   | Status                | Final           |                                                                                     |              |                                                                                     |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     | Groundwater  |                                                                                     |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                               | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                              | Water Strike | Backfill / Installation                                                             |
| 0.15 - 0.25                                                                         | D               | 1   |                          |                            | MADE GROUND: brown, slightly sandy, slightly gravelly silt. With some roots and rootlets (<1x3 mm). Sand is fine to coarse. Gravel is subangular and subrounded, fine and medium of flint and brick. [MADE GROUND] [SILT]                                                                                                                         | (0.15)<br>0.15        | 20.43           |  |              |  |
| 0.50 - 0.60                                                                         | D               | 2   |                          |                            | MADE GROUND: brown, slightly sandy, slightly gravelly silt. With occasional rootlets (<1x3 mm). With occasional fragments of glass (<1x30x50 mm) (1%). With rare fragments of metal pipe (<18x120 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick. [MADE GROUND] [SILT]                 | (0.35)<br>0.50        | 20.08           |  |              |  |
| 0.90 - 1.00                                                                         | D               | 3   |                          | 1                          | MADE GROUND: brown, slightly sandy, clayey gravel. With occasional fragments of glass (<2x30x60 mm) (1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. [MADE GROUND] [GRAVEL]                                                                                                        | (0.40)<br>0.90        | 19.68           |  |              |  |
| 1.50 - 1.60                                                                         | D               | 4   |                          | 2                          | MADE GROUND: (soft), brown, black and dark grey, slightly sandy, gravelly clay. With occasional fragments of glass (<2x30x60 mm) (2%). With rare fragments of metal pipe (<10x300 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour. [MADE GROUND] [CLAY] | (1.20)<br>2.10        | 18.48           |  | ▼            |  |
|                                                                                     |                 |     |                          | 3                          | End of Borehole at 2.10 m                                                                                                                                                                                                                                                                                                                         |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                   |                       |                 |                                                                                     |              |                                                                                     |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                   | Print Date            |                 | 26/02/2020                                                                          |              |                                                                                     |

|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
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|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                                                                                     |                |                        | Location ID        |                                       |                                      |                                                                           |                                                                    |               |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                                                                                     |                |                        | <b>HEP-BH-2501</b> |                                       |                                      |                                                                           |                                                                    |               |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
|                                                                                     | Coordinates (m)                  |                       | E503022.55 N176305.13    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                                                                                          |                | 20.58                  |                    | Sheet 1 of 1                          |                                      |                                                                           |                                                                    |               |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                                                                                     |                |                        | Status             |                                       | Final                                |                                                                           |                                                                    |               |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                                                                                         | Core Bit       | Drilling Crew          | Logged By          | Remarks                               |                                      |                                                                           |                                                                    |               |
| 0.00<br>1.20                                                                        | 1.20<br>2.10                     | IP<br>CP              | 23/05/2019<br>23/05/2019 | 23/05/2019<br>23/05/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                                                                                     |                | JT<br>JT               | RS<br>RS           |                                       |                                      |                                                                           |                                                                    |               |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                                                                                      |                |                        |                    |                                       | Core Details                         |                                                                           |                                                                    |               |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                                                                                      | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                          | Run Time (hh:mm)                     | Depth From (m)                                                            | Depth To (m)                                                       | Diameter (mm) |
| 23/05/2019<br>23/05/2019<br>23/05/2019                                              | 13:30:00<br>14:30:00<br>15:30:00 | 0.00<br>1.20<br>2.10  | 2.00                     |                          | Dry                    |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        | Casing Diameter (mm)                                                                                                                                                                                                                                |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| 2.10                                                                                |                                  | 200                   |                          | 2.00                     |                        | 200                                                                                                                                                                                                                                                 |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        | Tool / Remark                                                                                                                                                                                                                                       |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Water Strike                                                                        |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Strike At (m)                                                                       |                                  | Rise To (m)           |                          | Time Elapsed (mins)      |                        | Casing Depth (m)                                                                                                                                                                                                                                    |                | Depth Sealed (m)       |                    | Depth From (m)                        |                                      | Depth To (m)                                                              |                                                                    |               |
| 2.10                                                                                |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Groundwater not monitored.                                                          |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. The borehole was terminated at 2.10 m due to groundwater ingress. |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                   |                                                                                                                                                                                                                                                     |                |                        |                    | Backfill                              |                                      |                                                                           |                                                                    |               |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                                                                                       | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)                        | Depth To (m)                         | Backfill Material                                                         | Date                                                               |               |
| GMP                                                                                 | 1                                | 0.70                  | 1.80                     | 23/05/2019               | Pipe1<br>Pipe1         | 0.00<br>0.80                                                                                                                                                                                                                                        | 0.80<br>1.80   | 50<br>50               | Plain<br>Slotted   | -0.35<br>0.00<br>0.20<br>0.70<br>1.80 | 0.00<br>0.20<br>0.70<br>1.80<br>2.10 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 23/05/2019<br>23/05/2019<br>23/05/2019<br>23/05/2019<br>23/05/2019 |               |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                                                                                             |                | Grid Coordinate System |                    | OSGB                                  |                                      |                                                                           |                                                                    |               |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                                                                                     |                |                        |                    | Print Date                            |                                      | 26/02/2020                                                                |                                                                    |               |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
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|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2501</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E503022.55 N176305.13                   | Ground Elevation (m Datum)        |                                            | 20.58                                                  | Sheet 1 of 1     |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            | Status                                                 |                  | Final           |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                             |                       |                                                                                                 |             |              |                         |
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|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                             | Location ID           |                                                                                                 |             |              |                         |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                             | HEP-BH-2506           |                                                                                                 |             |              |                         |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                             |                       |                                                                                                 |             |              |                         |
|                                                                                     | Coordinates (m) |     | E502944.92 N176180.46    | Ground Elevation (m Datum) | 20.43                                                                                                                                                                                                                                                                                                                                       | Sheet 1 of 1          |                                                                                                 |             |              |                         |
|                                                                                     | Hole Type       |     | Inspection Pit           |                            |                                                                                                                                                                                                                                                                                                                                             | Status                | Final                                                                                           |             |              |                         |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                             |                       |                                                                                                 | Groundwater |              |                         |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                         | Depth (Thickness) (m) | Level (m Datum)                                                                                 | Legend      | Water Strike | Backfill / Installation |
| 0.00 - 0.10                                                                         | D               | 1   |                          |                            | MADE GROUND: dark brown, slightly silty, gravelly sand with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of mudstone, brick, concrete and slate. Cobbles (<80x80x110 mm) are subangular of brick. [MADE GROUND] [SAND]<br>At 0.30 m; with frequent subangular fragments (<5x60 mm) of slag. | (0.55)                |                                                                                                 |             |              |                         |
| 0.55 - 0.65                                                                         | D               | 2   |                          |                            | MADE GROUND: dark grey, slightly gravelly, sandy, clayey silt. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of brick and concrete. Slight organic odour. [MADE GROUND] [SILT]                                                                                                                                | 0.55                  | 19.88                                                                                           |             |              |                         |
| 1.00 - 1.10                                                                         | D               | 3   |                          | 1                          |                                                                                                                                                                                                                                                                                                                                             | (0.65)                |                                                                                                 |             |              |                         |
|                                                                                     |                 |     |                          |                            | End of Inspection Pit at 1.20 m                                                                                                                                                                                                                                                                                                             | 1.20                  | 19.23                                                                                           |             |              |                         |
|                                                                                     |                 |     |                          | 2                          |                                                                                                                                                                                                                                                                                                                                             |                       |                                                                                                 |             |              |                         |
|                                                                                     |                 |     |                          | 3                          |                                                                                                                                                                                                                                                                                                                                             |                       |                                                                                                 |             |              |                         |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                                             |                       |                                                                                                 |             |              |                         |
| Notes                                                                               |                 |     |                          |                            | Pit Stability                                                                                                                                                                                                                                                                                                                               |                       | Plan                                                                                            |             |              |                         |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                             |                       | 0.40 m<br> |             |              |                         |
| Template: FGSL/HBSI/FGSL Trial Pit.hbt/Config Fugro Rev5/05/12/2019/TS-AW           |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                             |                       | Print Date                                                                                      |             | 26/02/2020   |                         |

|                                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------------|-------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|------------------------|------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name        |                       | HAL Airport Expansion    |                   |                 |                                                                                                                                                                                   |                         |               | Location ID            |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Client               |                       | Heathrow Airport Limited |                   |                 |                                                                                                                                                                                   |                         |               | <b>HEP-BH-2506</b>     |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Fugro Reference      |                       | G190012U                 |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Coordinates (m)      |                       | E502944.92 N176180.46    |                   |                 | Ground Elevation (m Datum)                                                                                                                                                        |                         | 20.43         |                        | Sheet 1 of 1                 |                              |                                                         |                                                      |               |                      |  |
|                                                                                     | Hole Type            |                       | Inspection Pit           |                   |                 |                                                                                                                                                                                   |                         |               | Status                 |                              | Final                        |                                                         |                                                      |               |                      |  |
| Equipment                                                                           |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)         | Hole Type             | Date From                | Date To           | Equipment       | Core Barrel                                                                                                                                                                       | Core Bit                | Drilling Crew | Logged By              | Remarks                      |                              |                                                         |                                                      |               |                      |  |
| 0.00                                                                                | 1.20                 | IP                    | 20/05/2019               | 20/05/2019        | Hand-dug        |                                                                                                                                                                                   |                         | CT            | OJ                     |                              |                              |                                                         |                                                      |               |                      |  |
| Progress                                                                            |                      |                       |                          |                   |                 | Rotary Details                                                                                                                                                                    |                         |               |                        |                              | Core Details                 |                                                         |                                                      |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)      | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)   | Weather         | Depth From (m)                                                                                                                                                                    | Depth To (m)            | Flush Type    | Flush Return (%)       | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m)                                         | Diameter (mm) |                      |  |
| 20/05/2019<br>20/05/2019                                                            | 08:00:00<br>14:00:00 | 0.00<br>1.20          |                          |                   | Dry             |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Hole and Casing                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Depth To (m)                                                                        |                      | Hole Diameter (mm)    |                          | Depth To (m)      |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               | Casing Diameter (mm) |  |
|                                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Chiselling / Slow Progress                                                          |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Depth From (m)                                                                      |                      | Depth To (m)          |                          | Duration (hh:mm)  |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               | Tool / Remark        |  |
|                                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike                                                                        |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               | Water Added          |  |
| Strike At (m)                                                                       | Rise To (m)          | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)  | Depth From (m)  |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               | Depth To (m)         |  |
|                                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Water Strike Remarks                                                                |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               | General Remarks      |  |
| Groundwater was not encountered during excavation.                                  |                      |                       |                          |                   |                 | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Installation                                                                        |                      |                       |                          |                   | Pipe            |                                                                                                                                                                                   |                         |               |                        | Backfill                     |                              |                                                         |                                                      |               |                      |  |
| Type                                                                                | ID                   | Response Zone Top (m) | Response Zone Base (m)   | Installation Date | ID              | Top Depth (m)                                                                                                                                                                     | Base Depth (m)          | Diameter (mm) | Type                   | Depth From (m)               | Depth To (m)                 | Backfill Material                                       | Date                                                 |               |                      |  |
| GMP                                                                                 | 1                    | 0.90                  | 1.20                     | 20/05/2019        | Pipe1<br>Pipe1  | 0.09<br>0.90                                                                                                                                                                      | 0.90<br>1.20            | 50<br>50      | Plain<br>Slotted       | 0.00<br>0.05<br>0.20<br>0.90 | 0.05<br>0.20<br>0.90<br>1.20 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 20/05/2019<br>20/05/2019<br>20/05/2019<br>20/05/2019 |               |                      |  |
| Notes                                                                               |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              |                              |                                                         |                                                      |               |                      |  |
| Checked By                                                                          |                      | ROR                   |                          |                   | Elevation Datum |                                                                                                                                                                                   | Local Datum Not Defined |               | Grid Coordinate System |                              | OSGB                         |                                                         |                                                      |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                      |                       |                          |                   |                 |                                                                                                                                                                                   |                         |               |                        |                              | Print Date                   |                                                         | 26/02/2020                                           |               |                      |  |

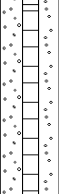
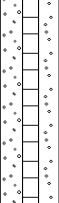
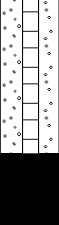
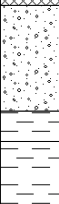
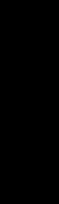
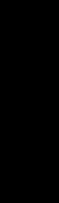
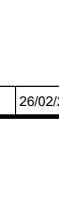
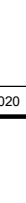
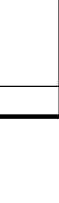
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-BH-2506</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502944.92 N176180.46                   | Ground Elevation (m Datum)        |                                            | 20.43                                                  | Sheet 1 of 1     |                 |
|                                                                                     | Hole Type       |                                            | Inspection Pit                          |                                   |                                            | Status                                                 |                  | Final           |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 26/02/2020       |                 |



|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------|-------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                 | Location ID           |                 |            |              |                         |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                 | <b>HEP-BH-2507</b>    |                 |            |              |                         |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     | Coordinates (m) |     | E502964.69 N176310.72    | Ground Elevation (m Datum) | 20.76                                                                                                                                                                                                                                                                                                                           | Sheet 1 of 1          |                 |            |              |                         |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                 | Status                | Final           |            |              |                         |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            | Groundwater  |                         |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                             | Depth (Thickness) (m) | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |
| 0.15 - 0.25                                                                         | D               | 1   |                          |                            | MADE GROUND: brown, slightly silty, sandy gravel with low cobble content. With rare fragments of plastic (<30x40x70 mm) (<1%) and tile (<3x30x50 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Cobbles (<100x100x120 mm) are subangular of concrete.     |                       |                 |            |              |                         |
| 0.50 - 0.60                                                                         | D               | 2   |                          |                            |                                                                                                                                                                                                                                                                                                                                 | (1.00)                |                 |            |              |                         |
| 0.90 - 1.00                                                                         | D               | 3   |                          | 1                          | [MADE GROUND] [GRAVEL]                                                                                                                                                                                                                                                                                                          | 1.00                  | 19.76           |            |              |                         |
| 1.50 - 1.60                                                                         | D               | 4   |                          |                            | MADE GROUND: dark grey, slightly silty, sandy gravel. With rare fragments of metal wire (<2x250 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete.                                                                                                            | (0.50)                |                 |            |              |                         |
| 2.00 - 2.10                                                                         | D               | 5   |                          |                            | [MADE GROUND] [GRAVEL]                                                                                                                                                                                                                                                                                                          | 1.50                  | 19.26           |            |              |                         |
|                                                                                     |                 |     |                          | 2                          | MADE GROUND: (soft), dark grey, slightly gravelly, sandy clay. With rare fragments of plastic (<40x40x50 mm) (<1%), tile (<3x40x40 mm) (<1%), metal wire (<2x300 mm) (<1%) and wood debris (<10x10x40 mm) (D2) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. | (0.60)                |                 |            |              |                         |
|                                                                                     |                 |     |                          |                            | [MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                            | 2.10                  | 18.66           |            | ▼            | ⊙                       |
|                                                                                     |                 |     |                          |                            | End of Borehole at 2.10 m                                                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 3                          |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 4                          |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 5                          |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 6                          |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 7                          |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 8                          |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
|                                                                                     |                 |     |                          | 9                          |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                 |                       |                 |            |              |                         |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                 | Print Date            |                 | 27/02/2020 |              |                         |

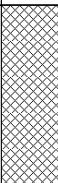
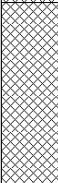
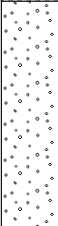
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|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|------------------------|--------------------|------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------|
|                                                                      | Contract Name                    |                       | HAL Airport Expansion    |                          |                                                                                                                                                                                                                                                            |                         |                |                        | Location ID        |                              |                              |                                                         |                                                      |               |
|                                                                                                                                                       | Client                           |                       | Heathrow Airport Limited |                          |                                                                                                                                                                                                                                                            |                         |                |                        | <b>HEP-BH-2507</b> |                              |                              |                                                         |                                                      |               |
|                                                                                                                                                       | Fugro Reference                  |                       | G190012U                 |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
|                                                                                                                                                       | Coordinates (m)                  |                       | E502964.69 N176310.72    |                          | Ground Elevation (m Datum)                                                                                                                                                                                                                                 |                         | 20.76          |                        |                    |                              |                              |                                                         |                                                      |               |
|                                                                                                                                                       | Hole Type                        |                       | Cable Percussion         |                          |                                                                                                                                                                                                                                                            |                         |                |                        | Status             | Final                        |                              |                                                         |                                                      |               |
| Equipment                                                                                                                                             |                                  |                       |                          |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Depth From (m)                                                                                                                                        | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment                                                                                                                                                                                                                                                  | Core Barrel             | Core Bit       | Drilling Crew          | Logged By          | Remarks                      |                              |                                                         |                                                      |               |
| 0.00<br>1.20                                                                                                                                          | 1.20<br>2.10                     | IP<br>CP              | 20/05/2019<br>20/05/2019 | 20/05/2019<br>20/05/2019 | Hand-dug<br>Dando 3000                                                                                                                                                                                                                                     |                         |                | JT<br>JT               | RS<br>RS           |                              |                              |                                                         |                                                      |               |
| Progress                                                                                                                                              |                                  |                       |                          |                          | Rotary Details                                                                                                                                                                                                                                             |                         |                |                        |                    | Core Details                 |                              |                                                         |                                                      |               |
| Date (dd/mm/yyyy)                                                                                                                                     | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                                                                                                                                                                                                                                                    | Depth From (m)          | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                 | Run Time (hh:mm)             | Depth From (m)                                          | Depth To (m)                                         | Diameter (mm) |
| 20/05/2019<br>20/05/2019<br>20/05/2019                                                                                                                | 08:00:00<br>16:00:00<br>18:00:00 | 0.00<br>1.20<br>2.10  | 2.00                     | Dry<br>2.10              |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Hole and Casing                                                                                                                                       |                                  |                       |                          |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Depth To (m)                                                                                                                                          |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                                                                                                                                                                                                                                                            | Casing Diameter (mm)    |                |                        |                    |                              |                              |                                                         |                                                      |               |
| 2.10                                                                                                                                                  |                                  | 200                   |                          | 2.00                     |                                                                                                                                                                                                                                                            | 200                     |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Chiselling / Slow Progress                                                                                                                            |                                  |                       |                          |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Depth From (m)                                                                                                                                        |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                                                                                                                                                                                                                                                            | Tool / Remark           |                |                        |                    |                              |                              |                                                         |                                                      |               |
|                                                                                                                                                       |                                  |                       |                          |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Water Strike                                                                                                                                          |                                  |                       |                          |                          | Water Added                                                                                                                                                                                                                                                |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Strike At (m)                                                                                                                                         | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)                                                                                                                                                                                                                                             | Depth To (m)            |                |                        |                    |                              |                              |                                                         |                                                      |               |
| 2.10                                                                                                                                                  |                                  |                       |                          |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Water Strike Remarks                                                                                                                                  |                                  |                       |                          |                          | General Remarks                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Groundwater strike at 2.10 m (slow seepage) not monitored. Subsequent groundwater level recorded on 15/08/2019 during gas monitoring event was 1.68m. |                                  |                       |                          |                          | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. The borehole was terminated at 2.10 m at the top of the saturation zone. |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Installation                                                                                                                                          |                                  |                       |                          |                          | Pipe                                                                                                                                                                                                                                                       |                         |                |                        |                    | Backfill                     |                              |                                                         |                                                      |               |
| Type                                                                                                                                                  | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                                                                                                                                                                                                                                                         | Top Depth (m)           | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)               | Depth To (m)                 | Backfill Material                                       | Date                                                 |               |
| GMP                                                                                                                                                   | 1                                | 0.90                  | 2.10                     | 20/05/2019               | Pipe1<br>Pipe1                                                                                                                                                                                                                                             | 0.14<br>1.00            | 1.00<br>2.10   | 50<br>50               | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>0.90 | 0.05<br>0.20<br>0.90<br>2.10 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill | 20/05/2019<br>20/05/2019<br>20/05/2019<br>20/05/2019 |               |
| Notes                                                                                                                                                 |                                  |                       |                          |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                   |                                  |                       |                          |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    |                              |                              |                                                         |                                                      |               |
| Checked By                                                                                                                                            |                                  | ROR                   |                          | Elevation Datum          |                                                                                                                                                                                                                                                            | Local Datum Not Defined |                | Grid Coordinate System |                    | OSGB                         |                              |                                                         |                                                      |               |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                            |                                  |                       |                          |                          |                                                                                                                                                                                                                                                            |                         |                |                        |                    | Print Date                   |                              | 27/02/2020                                              |                                                      |               |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            |                                                        | Location ID        |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            |                                                        | <b>HEP-BH-2507</b> |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                    |                 |
|                                                                                     | Coordinates (m) |                                            | E502964.69 N176310.72                   | Ground Elevation (m Datum)        | 20.76                                      |                                                        |                    |                 |
|                                                                                     | Hole Type       |                                            | Cable Percussion                        |                                   |                                            |                                                        | Sheet 1 of 1       |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            | Status                                                 | Final              |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m)   | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                    |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm)   |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                    |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 27/02/2020         |                 |

|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|----------------------------------------------------------------------------------------------|--|------|-----|-----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--|----------------------------|-----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|-------------|--|
| <div></div> |  |      |     | Contract Name   |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | HAL Airport Expansion    |  |                            |                 | Location ID                                                                           |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     | Client          |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Heathrow Airport Limited |  |                            |                 | HEP-BH-2513                                                                           |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     | Fugro Reference |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | G190012U                 |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     | Coordinates (m) |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | E502785.79 N176381.34    |  | Ground Elevation (m Datum) |                 |                                                                                       |                                                                                       |                                                                                       |  | 21.33       |  |
|                                                                                              |  |      |     | Hole Type       |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Cable Percussion         |  |                            |                 | Status                                                                                |                                                                                       | Final                                                                                 |  |             |  |
| Sampling and In Situ Testing                                                                 |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Strata Details           |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  | Groundwater |  |
| Depth (m)                                                                                    |  | Type | No. | Test Results    | Depth (m) | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                               |  |                          |  | Depth (Thickness) (m)      | Level (m Datum) | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                               |  |             |  |
| 0.10 - 0.20                                                                                  |  | ES   | 2   | < 0.1 ppm       |           | TOPSOIL: brown silt. With frequent rootlets (<1x10 mm).<br>[TOPSOIL] [SILT]                                                                                                                                                                                                                                                                                                                                       |  |                          |  | (0.10)                     | 21.23           |    |    |    |  |             |  |
| 0.10 - 0.60                                                                                  |  | B    | 1   |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  | 0.10                       |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 0.10                                                                                         |  | PID  |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 0.20 - 0.25                                                                                  |  | D    | 3   |                 |           | MADE GROUND: (very soft), dark brown, slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]<br>Between 0.50 m and 1.20 m; (soft) and gravelly.                                                                                                                                                          |  |                          |  | (1.10)                     |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 1.20 - 1.30                                                                                  |  | ES   | 4   | < 0.1 ppm       |           | MADE GROUND: (soft and firm), dark greenish brown, slightly sandy, gravelly clay. With rare fragments of brick (<40x60x115 mm) (<1%). Sand is fine to coarse. Gravel is subangular, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]                                                                                                                                                                    |  |                          |  | 1.20                       | 20.13           |    |    |    |  |             |  |
| 1.20                                                                                         |  | B    |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 1.30 - 1.35                                                                                  |  | D    | 5   |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 1.50 - 2.00                                                                                  |  | B    | 6   |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  | (1.30)                     |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 2.50 - 2.60                                                                                  |  | ES   | 8   | 0.4 ppm         |           | MADE GROUND: (soft), black, slightly sandy, slightly gravelly clay. With occasional fragments of wood debris (<40x90 mm) (D1). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint.<br>[MADE GROUND] [CLAY]<br>Between 2.80 m and 5.30 m; with rare fragments of metal and metal rings (<5x10 mm).<br>Between 3.20 m and 5.30 m; with rare fragments of wood debris (<10x15x150 mm). |  |                          |  | 2.50                       | 18.83           |    |    |    |  |             |  |
| 2.50 - 3.00                                                                                  |  | B    | 7   |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 2.50                                                                                         |  | PID  |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 2.60 - 2.65                                                                                  |  | D    | 9   |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 3.00 - 3.10                                                                                  |  | ES   | 11  | 0.1 ppm         |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |   |   |   |  |             |  |
| 3.00 - 3.50                                                                                  |  | B    | 10  |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 3.00                                                                                         |  | PID  |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 3.10 - 3.15                                                                                  |  | D    | 12  |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  | (2.80)                     |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 4.20 - 4.80                                                                                  |  | B    | 13  |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 4.50 - 4.60                                                                                  |  | ES   | 14  | < 0.1 ppm       |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |  |  |  |  |             |  |
| 4.50                                                                                         |  | PID  |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 4.75 - 4.80                                                                                  |  | D    | 15  |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 5.30 - 5.35                                                                                  |  | D    | 18  |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  | 5.30                       | 16.03           |  |  |  |  |             |  |
| 5.30 - 5.40                                                                                  |  | ES   | 16  |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 5.30 - 5.80                                                                                  |  | B    |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 5.30                                                                                         |  | PID  | 17  | < 0.1 ppm       |           | Yellow and brown, slightly silty, sandy GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL]                                                                                                                                                                                                                                        |  |                          |  | (0.70)                     |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 6.00 - 6.45                                                                                  |  | B    | 19  | N = 6 (C)       |           | Firm and stiff, dark brownish grey, mottled brown CLAY.<br>[LONDON CLAY FORMATION] [CLAY]                                                                                                                                                                                                                                                                                                                         |  |                          |  | 6.00                       | 15.33           |  |  |  |  |             |  |
| 6.00 - 6.45                                                                                  |  | SPT  |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  | (0.20)                     | 15.13           |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  | 6.20                       |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 6.45 - 6.55                                                                                  |  | ES   | 20  | < 0.1 ppm       |           | Stiff, fissured, dark grey, slightly sandy CLAY. Sand is fine to coarse. Fissures are randomly orientated, possibly extremely closely spaced, predominantly undulating, occasionally planar, rough, smooth.<br>[LONDON CLAY FORMATION] [CLAY]<br>Between 6.60 m and 7.00 m; slightly gravelly. Gravel is fine and medium.                                                                                         |  |                          |  |                            |                 |  |  |  |  |             |  |
| 6.45                                                                                         |  | PID  |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 6.55 - 6.60                                                                                  |  | D    | 21  |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 6.60 - 7.00                                                                                  |  | B    | 22  |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  | (1.80)                     |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 7.20 - 7.30                                                                                  |  | ES   | 23  | < 0.1 ppm       |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |  |  |  |  |             |  |
| 7.20                                                                                         |  | PID  |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 7.50 - 7.95                                                                                  |  | UT   | 24  |                 |           | 60/450 mm                                                                                                                                                                                                                                                                                                                                                                                                         |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
| 7.95 - 8.00                                                                                  |  | D    | 25  |                 |           | End of Borehole at 8.00 m                                                                                                                                                                                                                                                                                                                                                                                         |  |                          |  | 8.00                       | 13.33           |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
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|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
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|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
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|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
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|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
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|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
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|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
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|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
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|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |
|                                                                                              |  |      |     |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |  |                            |                 |                                                                                       |                                                                                       |                                                                                       |  |             |  |

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|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|--------------------|---------------------------------------|--------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                |                        | Location ID        |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                |                        | <b>HEP-BH-2513</b> |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502785.79 N176381.34    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                | 21.33                  |                    | Sheet 1 of 1                          |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                |                        | Status             |                                       | Final                                |                                                                           |                                                                    |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By          | Remarks                               |                                      |                                                                           |                                                                    |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>8.00                     | IP<br>CP              | 06/06/2019<br>06/06/2019 | 06/06/2019<br>07/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                | SB<br>SB               | JJ<br>JJ           |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                |                        |                    |                                       | Core Details                         |                                                                           |                                                                    |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                          | Run Time (hh:mm)                     | Depth From (m)                                                            | Depth To (m)                                                       | Diameter (mm) |                      |  |
| 06/06/2019<br>06/06/2019<br>06/06/2019                                              | 09:00:00<br>12:30:00<br>17:00:00 | 0.00<br>1.20<br>8.00  | 6.77                     | Dry<br>Dry               |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               | Casing Diameter (mm) |  |
| 8.00                                                                                |                                  | 200                   |                          | 6.77                     |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               | 200                  |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                        | Water Added                                                                                                                                                                       |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)         | Depth To (m)                                                                                                                                                                      |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| 3.00<br>5.30                                                                        | 2.45<br>2.45                     | 20<br>20              | 3.00<br>5.00             |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                   |                                                                                                                                                                                   |                |                        |                    | Backfill                              |                                      |                                                                           |                                                                    |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)                        | Depth To (m)                         | Backfill Material                                                         | Date                                                               |               |                      |  |
| SP                                                                                  | 1                                | 1.00                  | 4.80                     | 07/06/2019               | Pipe1<br>Pipe1         | -0.02<br>1.20                                                                                                                                                                     | 1.20<br>4.80   | 50<br>50               | Plain<br>Slotted   | -0.28<br>0.00<br>0.20<br>1.00<br>4.80 | 0.00<br>0.20<br>1.00<br>4.80<br>8.00 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 07/06/2019<br>07/06/2019<br>07/06/2019<br>07/06/2019<br>07/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                    | OSGB                                  |                                      |                                                                           |                                                                    |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    | Print Date                            |                                      | 26/02/2020                                                                |                                                                    |               |                      |  |

[illegible]

|                                                                                              |                      |                |                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                            |                                                                                       |                                                                                       |                                                                                       |                                                                                                                                                                                                                                                                               |      |
|----------------------------------------------------------------------------------------------|----------------------|----------------|------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <div></div> |                      |                |                        | Contract Name   |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | HAL Airport Expansion      |                                                                                       |                                                                                       | Location ID                                                                           |                                                                                                                                                                                                                                                                               |      |
|                                                                                              |                      |                |                        | Client          |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Heathrow Airport Limited   |                                                                                       |                                                                                       | HEP-BH-2514                                                                           |                                                                                                                                                                                                                                                                               |      |
|                                                                                              |                      |                |                        | Fugro Reference |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | G190012U                   |                                                                                       |                                                                                       |                                                                                       |                                                                                                                                                                                                                                                                               |      |
|                                                                                              |                      |                |                        | Coordinates (m) |                                                                                                                                                                                                                                                                                                                                                                                                                  | E502818.13 N176342.85 | Ground Elevation (m Datum) |                                                                                       | 21.89                                                                                 |                                                                                       |                                                                                                                                                                                                                                                                               |      |
|                                                                                              |                      |                |                        | Hole Type       |                                                                                                                                                                                                                                                                                                                                                                                                                  | Cable Percussion      |                            |                                                                                       | Status                                                                                |                                                                                       | Final                                                                                                                                                                                                                                                                         |      |
| Sampling and In Situ Testing                                                                 |                      |                |                        | Strata Details  |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                            |                                                                                       |                                                                                       |                                                                                       | Groundwater                                                                                                                                                                                                                                                                   |      |
| Depth (m)                                                                                    | Type                 | No.            | Test Results           | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                              | Depth (Thickness) (m) | Level (m Datum)            | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                               |                                                                                                                                                                                                                                                                               |      |
| 0.10 - 0.20<br>0.10 - 0.60<br>0.10<br>0.20 - 0.25                                            | ES<br>B<br>PID<br>D  | 2<br>1<br>3    | < 0.1 ppm              | 1               | MADE GROUND: (soft), dark brown, slightly sandy, gravelly clay with high cobble content. IDT engineer noted with rare fragments plastic (<1%). Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of brick and concrete. Cobbles (<60x80x200 mm) are angular of brick.<br>[MADE GROUND] [CLAY]<br>Between 0.40 m and 1.20 m; brick cobbles absent.<br>Between 1.00 m and 1.20 m; (firm). | (1.20)                | 20.69                      |    |    |    |                                                                                                                                                                                                                                                                               |      |
| 1.20 - 1.30<br>1.20 - 1.60<br>1.20<br>1.30 - 1.35                                            | ES<br>B<br>PID<br>D  | 5<br>4<br>6    |                        |                 | MADE GROUND: (soft and firm), black mottled dark orangish brown, slightly sandy, gravelly clay. With occasional fragments of plastic (<15x40 mm). With rare fragments of glass (<2x6x10 mm) Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, brick and concrete.<br>[MADE GROUND] [CLAY]                                                                                        | 1.20<br>(0.80)        |                            |                                                                                       |                                                                                       |                                                                                       |                                                                                                                                                                                                                                                                               |      |
| 2.00 - 2.10<br>2.00 - 2.50<br>2.00<br>2.10 - 2.15                                            | ES<br>B<br>PID<br>D  | 8<br>7<br>9    |                        |                 | MADE GROUND: (very soft), black, slightly gravelly, very sandy clay (89%). With some pockets (<10x10 mm) of yellow, fine to coarse, sand. With frequent fragments of metal (<10x30 mm) (11%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]<br>Between 2.00 m and 2.50 m; slight hydrocarbon and organic odour.        | 2.00                  |                            |                                                                                       |                                                                                       |                                                                                       |                                                                                                                                                                                                                                                                               |      |
| 3.00 - 3.10<br>3.00 - 3.50<br>3.00<br>3.10 - 3.15                                            | ES<br>B<br>PID<br>D  | 11<br>10<br>12 | < 0.1 ppm              | 3               | Between 4.20 m and 5.20 m; with occasional very thin beds of gravel. Gravel is subangular and subrounded, fine and medium of flint.                                                                                                                                                                                                                                                                              | (3.20)                | 19.89                      |    |    |    |                                                                                                                                                                                                                                                                               |      |
| 4.00 - 4.10<br>4.00 - 4.50<br>4.00<br>4.10 - 4.15                                            | ES<br>B<br>PID<br>D  | 14<br>13<br>15 | 0.2 ppm                | 4               |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                            |                                                                                       |                                                                                       |                                                                                       |                                                                                                                                                                                                                                                                               |      |
| 5.20 - 5.30<br>5.20<br>5.30 - 5.35                                                           | ES<br>PID<br>D       | 16<br>17       | < 0.1 ppm              | 5               |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                            |                                                                                       |                                                                                       |                                                                                       | Dense, orange, green and dark blue, slightly silty, slightly sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint. Cobbles (<65x70x70 mm) are subangular of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL] | 5.20 |
| 6.00 - 6.45<br>6.00 - 6.45                                                                   | B<br>SPT             | 18             | N = 38 (S)             | 6               | Firm and stiff, fissured, dark grey, slightly sandy CLAY. Sand is fine to coarse. Fissures are randomly orientated, possibly extremely closely spaced, predominantly undulating, rough, occasionally planar, smooth.<br>[LONDON CLAY FORMATION] [CLAY]<br>Between 7.00 m and 7.50 m; slightly gravelly. Gravel is fine and medium.                                                                               | (1.60)                | 16.69                      |  |  |  |                                                                                                                                                                                                                                                                               |      |
| 7.00 - 7.10<br>7.00 - 7.50<br>7.00<br>7.50 - 7.95                                            | ES<br>B<br>PID<br>UT | 19<br>20<br>21 | < 0.1 ppm<br>50/450 mm | 7               |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                            |                                                                                       |                                                                                       |                                                                                       |                                                                                                                                                                                                                                                                               |      |
| 7.95 - 8.00<br>8.10 - 8.20<br>8.10<br>8.50 - 8.55                                            | D<br>ES<br>PID<br>D  | 22<br>23<br>24 | < 0.1 ppm              | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                            |                                                                                       |                                                                                       |                                                                                       | 6.80                                                                                                                                                                                                                                                                          |      |
| 9.00 - 9.45<br>9.00 - 9.45                                                                   | D<br>SPT             | 25             | N = 19 (S)             | 9               | Continued next page                                                                                                                                                                                                                                                                                                                                                                                              | 10.00                 | 15.09                      |  |  |  |                                                                                                                                                                                                                                                                               |      |
| 10.00 - 10.10<br>10.00                                                                       | ES<br>PID            | 26             | < 0.1 ppm              | 10.00           |                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                            |                                                                                       |                                                                                       |                                                                                       | 11.89                                                                                                                                                                                                                                                                         |      |

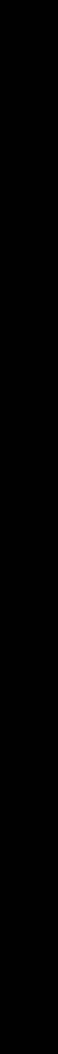
Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW

Print Date

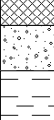
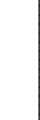
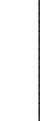
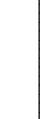
26/02/2020

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                | Location ID           |                 |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                | HEP-BH-2514           |                 |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     | Coordinates (m) |     | E502818.13 N176342.85    | Ground Elevation (m Datum) | 21.89                                                                                                                                                                                                                                                          | Sheet 2 of 2          |                 |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                | Status                | Final           |                                                                                      |                                                                                      |                                                                                      |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      | Groundwater                                                                          |                                                                                      |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                            | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                               | Water Strike                                                                         | Backfill / Installation                                                              |
| 10.60 - 10.65                                                                       | D               | 27  |                          |                            | Stiff and very stiff, fissured, dark grey CLAY. With occasional partings (<1 mm) of silt. Fissures are randomly orientated, possibly extremely closely spaced, predominantly undulating, rough, occasionally planar, smooth.<br>[LONDON CLAY FORMATION] [CLAY] | (7.00)                |                 |  |  |  |
| 11.00 - 11.45                                                                       | UT              | 28  | 103/450 mm               | 11                         |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 11.45 - 11.50                                                                       | D               | 29  |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     |                 |     |                          | 12                         |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 12.45 - 12.50                                                                       | D               | 30  |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 13.00 - 13.45                                                                       | D               | 31  | N = 30 (S)               | 13                         |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 13.00 - 13.45                                                                       | SPT             |     |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 13.45 - 13.55                                                                       | ES              | 32  | < 0.1 ppm                |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 13.45                                                                               | PID             |     |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 14.10 - 14.15                                                                       | D               | 33  |                          | 14                         |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     |                 |     |                          |                            | Between 14.50 m and 17.00 m; micaceous.                                                                                                                                                                                                                        |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 15.00 - 15.45                                                                       | UT              | 34  | 85/450 mm                | 15                         |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 15.45 - 15.50                                                                       | D               | 35  |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 16.00 - 16.10                                                                       | ES              | 36  | < 0.1 ppm                | 16                         |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| 16.00                                                                               | PID             |     |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     |                 |     |                          | 17                         | End of Borehole at 17.00 m                                                                                                                                                                                                                                     | 17.00                 | 4.89            |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     |                 |     |                          | 18                         |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
|                                                                                     |                 |     |                          | 19                         |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                |                       |                 |                                                                                      |                                                                                      |                                                                                      |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                | Print Date            |                 | 26/02/2020                                                                           |                                                                                      |                                                                                      |



|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|----------------------------|-------------------------|----------------|------------------------|--------------------|--------------------------------------|---------------------------------------|----------------------------------------------------------------------|--------------|--------------------------------------------------------------------|
|                                                                                                                                                                        | Contract Name   |                       | HAL Airport Expansion    |                          |                            |                         |                |                        | Location ID        |                                      |                                       |                                                                      |              |                                                                    |
|                                                                                                                                                                                                                                                         | Client          |                       | Heathrow Airport Limited |                          |                            |                         |                |                        | <b>HEP-BH-2514</b> |                                      |                                       |                                                                      |              |                                                                    |
|                                                                                                                                                                                                                                                         | Fugro Reference |                       | G190012U                 |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
|                                                                                                                                                                                                                                                         | Coordinates (m) |                       | E502818.13 N176342.85    |                          | Ground Elevation (m Datum) |                         | 21.89          |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
|                                                                                                                                                                                                                                                         | Hole Type       |                       | Cable Percussion         |                          |                            |                         |                |                        | Status             |                                      | Final                                 |                                                                      |              |                                                                    |
| Equipment                                                                                                                                                                                                                                               |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Depth From (m)                                                                                                                                                                                                                                          | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel             | Core Bit       | Drilling Crew          | Logged By          | Remarks                              |                                       |                                                                      |              |                                                                    |
| 0.00<br>1.20                                                                                                                                                                                                                                            | 1.20<br>17.00   | IP<br>CP              | 11/06/2019<br>11/06/2019 | 11/06/2019<br>12/06/2019 | Hand-dug<br>Dando 3000     |                         |                | SB<br>SB               | JJ<br>JJ           |                                      |                                       |                                                                      |              |                                                                    |
| Progress                                                                                                                                                                                                                                                |                 |                       |                          |                          |                            | Rotary Details          |                |                        |                    |                                      |                                       | Core Details                                                         |              |                                                                    |
| Date (dd/mm/yyyy)                                                                                                                                                                                                                                       | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)          | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                         | Run Time (hh:mm)                      | Depth From (m)                                                       | Depth To (m) | Diameter (mm)                                                      |
| 11/06/2019                                                                                                                                                                                                                                              | 08:00:00        | 0.00                  |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| 11/06/2019                                                                                                                                                                                                                                              | 10:15:00        | 1.20                  |                          |                          | Dry                        |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| 11/06/2019                                                                                                                                                                                                                                              | 13:15:00        | 8.80                  | 7.50                     |                          | Dry                        |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| 12/06/2019                                                                                                                                                                                                                                              | 08:00:00        | 8.80                  | 7.50                     |                          | Dry                        |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| 12/06/2019                                                                                                                                                                                                                                              | 18:00:00        | 17.00                 | 9.77                     |                          | Dry                        |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Hole and Casing                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Depth To (m)                                                                                                                                                                                                                                            |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                            | Casing Diameter (mm)    |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| 8.80<br>17.00                                                                                                                                                                                                                                           |                 | 250<br>200            |                          | 7.50<br>9.77             |                            | 250<br>200              |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Chiselling / Slow Progress                                                                                                                                                                                                                              |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Depth From (m)                                                                                                                                                                                                                                          |                 | Depth To (m)          |                          | Duration (hh:mm)         |                            | Tool / Remark           |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Water Strike                                                                                                                                                                                                                                            |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Strike At (m)                                                                                                                                                                                                                                           |                 | Rise To (m)           |                          | Time Elapsed (mins)      |                            | Casing Depth (m)        |                | Depth Sealed (m)       |                    | Depth From (m)                       |                                       | Depth To (m)                                                         |              |                                                                    |
| 3.40                                                                                                                                                                                                                                                    |                 | 3.25                  |                          | 20                       |                            | 3.00                    |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Water Strike Remarks                                                                                                                                                                                                                                    |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| General Remarks                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. Bentonite seal placed between 8.80 m and 6.80 m as instructed by IDT. |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Installation                                                                                                                                                                                                                                            |                 |                       |                          |                          | Pipe                       |                         |                |                        |                    | Backfill                             |                                       |                                                                      |              |                                                                    |
| Type                                                                                                                                                                                                                                                    | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)           | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)                       | Depth To (m)                          | Backfill Material                                                    |              | Date                                                               |
| SP                                                                                                                                                                                                                                                      | 1               | 1.00                  | 4.70                     | 12/06/2019               | Pipe1<br>Pipe1             | 0.15<br>1.20            | 1.20<br>4.70   | 50<br>50               | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>1.00<br>4.70 | 0.05<br>0.20<br>1.00<br>4.70<br>17.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite |              | 12/06/2019<br>12/06/2019<br>12/06/2019<br>12/06/2019<br>12/06/2019 |
| Notes                                                                                                                                                                                                                                                   |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                                                                                                                     |                 |                       |                          |                          |                            |                         |                |                        |                    |                                      |                                       |                                                                      |              |                                                                    |
| Checked By                                                                                                                                                                                                                                              |                 | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined |                | Grid Coordinate System |                    | OSGB                                 |                                       |                                                                      |              |                                                                    |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                                                                                                                              |                 |                       |                          |                          |                            |                         |                |                        |                    | Print Date                           |                                       | 26/02/2020                                                           |              |                                                                    |

[illegible]

|                                                                                     |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
|-------------------------------------------------------------------------------------|--|-----------------|-----|------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|-----------------------|-----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--|
|    |  | Contract Name   |     |                  |                | HAL Airport Expansion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                            |                       | Location ID     |                                                                                       |                                                                                       |                                                                                       |  |  |
|                                                                                     |  | Client          |     |                  |                | Heathrow Airport Limited                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                            |                       | HEP-BH-2515     |                                                                                       |                                                                                       |                                                                                       |  |  |
|                                                                                     |  | Fugro Reference |     |                  |                | G190012U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
|                                                                                     |  | Coordinates (m) |     |                  |                | E502963.41 N176310.96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Ground Elevation (m Datum) |                       | 20.73           |                                                                                       | Sheet 1 of 3                                                                          |                                                                                       |  |  |
| Hole Type                                                                           |  |                 |     | Cable Percussion |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Status                     |                       | Final           |                                                                                       |                                                                                       |                                                                                       |  |  |
| Sampling and In Situ Testing                                                        |  |                 |     |                  | Strata Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       | Groundwater                                                                           |  |  |
| Depth (m)                                                                           |  | Type            | No. | Test Results     | Depth (m)      | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                            | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                               |  |  |
| 0.15 - 0.25                                                                         |  | D               | 3   | < 0.1 ppm        | 1              | MADE GROUND: brown, slightly silty, sandy gravel with low cobble content. With occasional fragments of metal wire (<3x300 mm) (2%). With rare fragments of metal (<1x5x250 mm) (<1%), plastic (<3x150x400 mm) (<1%), wood debris (<10x10x30 mm) (D1) (<1%) and tile (<3x50x70 mm) (<1%). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, brick and concrete. Cobbles (<100x150x150 mm) are angular and subangular of brick and concrete.<br>[MADE GROUND] [GRAVEL]                                                      |  |                            | (0.90)                | 19.83           |    |    |    |  |  |
| 0.15 - 0.25                                                                         |  | ES              | 2   |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 0.15 - 0.30                                                                         |  | B               | 1   |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 0.15                                                                                |  | PID             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 0.50 - 0.60                                                                         |  | D               | 6   |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 0.50 - 0.60                                                                         |  | ES              | 5   | < 0.1 ppm        | 1              | MADE GROUND: dark brown and dark grey, sandy gravel. With occasional fragments of plastic (<3x30x50 mm) (2%) and tile (<50x70x120 mm) (2%). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, brick and concrete.<br>[MADE GROUND] [GRAVEL]                                                                                                                                                                                                                                                                               |  |                            | 0.90                  | 19.43           |    |    |    |  |  |
| 0.50 - 0.70                                                                         |  | B               | 4   |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 0.50                                                                                |  | PID             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 0.90 - 1.00                                                                         |  | D               | 9   |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 0.90 - 1.00                                                                         |  | ES              | 8   |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 0.90 - 1.20                                                                         |  | B               | 7   | < 0.1 ppm        | 2              | MADE GROUND: (soft), dark brown, rarely dark grey, slightly gravelly, sandy clay. With rare fragments of plastic (<3x50x70 mm) (<1%) and tile (<3x50x70 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [CLAY]                                                                                                                                                                                                                                |  |                            | 1.30                  | 18.23           |    |    |    |  |  |
| 0.90                                                                                |  | PID             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 1.30 - 1.40                                                                         |  | D               | 12  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 1.30 - 1.40                                                                         |  | ES              | 11  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 1.30 - 1.50                                                                         |  | B               | 10  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 1.30                                                                                |  | PID             |     | < 0.1 ppm        | 2              | MADE GROUND: (soft), dark grey, slightly gravelly, sandy clay (67%). With some fragments of plastic (<5x70x100 mm) (10%), metal wires and springs (<5x60x80 mm) (5%) and glass (<3x60x60 mm) (5%). With occasional fragments of wood debris (<30x30x50 mm) (D1) (2%). With rare fragments of tile (<3x50x50 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. With a slight organic odour. Slight hydrocarbon sheen on surface of groundwater.<br>[MADE GROUND] [WASTE, e.g. LANDFILL] |  |                            | (1.20)                | 17.33           |    |    |    |  |  |
| 1.50 - 1.95                                                                         |  | B               | 14  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 1.50 - 1.95                                                                         |  | D               | 13  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 1.50 - 1.95                                                                         |  | SPT             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 2.00 - 2.10                                                                         |  | D               | 15  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 2.00 - 2.10                                                                         |  | ES              | 16  | < 0.1 ppm        | 3              | MADE GROUND: (soft), black and dark grey, slightly sandy, slightly gravelly clay (83%). With frequent fragments of glass (<3x70x100 mm) (15%). With occasional fragments of metal and metal wire (<5x60x80 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour. Slight hydrocarbon sheen on surface of groundwater.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]                                                                                                          |  |                            | 2.50                  | 16.03           |   |   |   |  |  |
| 2.00 - 2.40                                                                         |  | B               | 17  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 2.00                                                                                |  | PID             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 2.50 - 2.60                                                                         |  | ES              | 20  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 2.50 - 2.95                                                                         |  | D               | 18  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 2.50 - 3.00                                                                         |  | B               | 19  | < 0.1 ppm        | 3              | MADE GROUND: black, slightly clayey, sandy gravel (83%). With some fragments of glass (<3x60x60 mm) (10%) and plastic (<3x70x80 mm) (5%). With occasional fragments of metal (<30x30x50 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick. Slight organic odour. Slight hydrocarbon sheen on surface of groundwater.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]                                                                                                                                       |  |                            | (0.90)                | 15.43           |  |  |  |  |  |
| 2.50 - 2.95                                                                         |  | SPT             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 2.50                                                                                |  | PID             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 3.50 - 3.60                                                                         |  | D               | 23  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 3.50 - 3.60                                                                         |  | ES              | 22  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 3.50 - 4.00                                                                         |  | B               | 21  | < 0.1 ppm        | 4              | MADE GROUND: (soft), black and dark grey, slightly sandy, slightly gravelly clay (83%). With frequent fragments of glass (<3x70x100 mm) (15%). With occasional fragments of metal and metal wire (<5x60x80 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour. Slight hydrocarbon sheen on surface of groundwater.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]                                                                                                          |  |                            | 3.40                  | 15.13           |  |  |  |  |  |
| 3.50                                                                                |  | PID             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 4.50 - 4.60                                                                         |  | D               | 26  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 4.50 - 4.60                                                                         |  | ES              | 25  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 4.50 - 5.00                                                                         |  | B               | 24  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 4.50                                                                                |  | PID             |     | < 0.1 ppm        | 5              | MADE GROUND: (soft), black and dark grey, slightly sandy, slightly gravelly clay (83%). With frequent fragments of glass (<3x70x100 mm) (15%). With occasional fragments of metal and metal wire (<5x60x80 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour. Slight hydrocarbon sheen on surface of groundwater.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]                                                                                                          |  |                            | (0.60)                | 14.73           |  |  |  |  |  |
| 5.60 - 5.70                                                                         |  | D               | 29  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 5.60 - 5.70                                                                         |  | ES              | 28  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 5.60 - 6.00                                                                         |  | B               | 27  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 5.60                                                                                |  | PID             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 6.50 - 6.95                                                                         |  | UT              | 30  | 50/400 mm        | 6              | Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL]                                                                                                                                                                                                                                                                                                                                                                                                            |  |                            |                       | 14.73           |  |  |  |  |  |
| 6.95 - 7.00                                                                         |  | D               | 31  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 7.90 - 8.00                                                                         |  | D               | 34  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 7.90 - 8.00                                                                         |  | ES              | 33  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 7.90 - 8.40                                                                         |  | B               | 32  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 7.90                                                                                |  | PID             |     | < 0.1 ppm        | 8              | Firm, brown, mottled orange brown, slightly sandy, slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular and subrounded, fine and medium of flint. (Gravel possibly brought down during boring from above stratum).<br>[LONDON CLAY FORMATION] [CLAY]                                                                                                                                                                                                                                                                                      |  |                            |                       | 15.13           |  |  |  |  |  |
| 8.50 - 8.95                                                                         |  | B               | 36  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 8.50 - 8.95                                                                         |  | D               | 35  |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 8.50 - 8.95                                                                         |  | SPT             |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 8.50 - 8.95                                                                         |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| 10.00 - 10.45                                                                       |  | UT              | 37  | 55/430 mm        | 9              | Firm, grey CLAY. Locally fissured. With occasional pockets (<20x30 mm) of dark grey and black, fine sand. Fissures are randomly orientated, closely spaced, planar and rough.<br>[LONDON CLAY FORMATION] [CLAY]                                                                                                                                                                                                                                                                                                                                           |  |                            |                       | 15.13           |  |  |  |  |  |
|                                                                                     |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
|                                                                                     |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
|                                                                                     |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
|                                                                                     |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
|                                                                                     |  |                 |     |                  |                | Continued next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                            | 10.00                 | 10.73           |                                                                                       |                                                                                       |                                                                                       |  |  |
| Notes                                                                               |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Confia Fugro Rev5/24/01/2020/TS+AW    |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       |                 |                                                                                       |                                                                                       |                                                                                       |  |  |
| Print Date                                                                          |  |                 |     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                            |                       | 27/02/2020      |                                                                                       |                                                                                       |                                                                                       |  |  |

|                                                                                     |  |                            |                |                         |    |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
|-------------------------------------------------------------------------------------|--|----------------------------|----------------|-------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------|-----------------------|-----------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--|
|    |  | Contract Name              |                |                         |    | HAL Airport Expansion                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       | Location ID           |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     |  | Client                     |                |                         |    | Heathrow Airport Limited                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       | HEP-BH-2515           |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     |  | Fugro Reference            |                |                         |    | G190012U                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
|                                                                                     |  | Coordinates (m)            |                |                         |    | E502963.41 N176310.96                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                           | Ground Elevation (m Datum)                       |       |                       |                 |                                                                                     |              | 20.73                                                                               |  |
|                                                                                     |  | Hole Type                  |                |                         |    | Cable Percussion                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       | Status                |                 | Final                                                                               |              |                                                                                     |  |
| Sampling and In Situ Testing                                                        |  |                            |                |                         |    | Strata Details                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              | Groundwater                                                                         |  |
| Depth (m)                                                                           |  | Type                       | No.            | Test Results            |    | Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                             | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |       | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                              | Water Strike | Backfill / Installation                                                             |  |
| 10.45 - 10.50                                                                       |  | D                          | 38             | N = 26 (S)<br>< 0.1 ppm |    | 10                                                                                                                                                                                                                                                                                                                                                                                                                    | Stiff, fissured, grey CLAY. With occasional pockets (<20x30 mm) of dark grey and black, fine sand and partings (<1 mm) of light grey silt. Fissures are randomly orientated, very closely and closely spaced, planar, smooth and polished.<br>[LONDON CLAY FORMATION] [CLAY]                                                                                                                                              |                                                  |       | (2.00)                | 8.73            |  |              |  |  |
| 11.00 - 11.10                                                                       |  | D                          | 39             |                         |    | 11                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 12.00 - 12.10<br>12.00 - 12.45<br>12.00 - 12.45<br>12.00 - 12.45<br>12.00           |  | ES<br>B<br>D<br>SPT<br>PID | 42<br>41<br>40 |                         |    | 12                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 13.00 - 13.10                                                                       |  | D                          | 43             | < 0.1 ppm               |    | 13                                                                                                                                                                                                                                                                                                                                                                                                                    | Very stiff, fissured, grey CLAY. With occasional pockets (<30x40 mm) of dark grey and black, fine sand, occasional partings (<1 mm) of light grey silt, bioturbation burrows (<3x20 mm) infilled with grey silt, and pyrite nodules (<40x40 mm). With rare shell fragments (<30x40 mm). Fissures are randomly orientated, very closely and closely spaced, planar, smooth and polished.<br>[LONDON CLAY FORMATION] [CLAY] |                                                  |       | 12.00                 | 8.73            |                                                                                     |              |                                                                                     |  |
| 14.00 - 14.45                                                                       |  | UT                         | 44             |                         |    | 75/420 mm                                                                                                                                                                                                                                                                                                                                                                                                             | 14                                                                                                                                                                                                                                                                                                                                                                                                                        | Between 14.00 m and 14.45 m; very high strength. |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 14.45 - 14.50                                                                       |  | D                          | 45             |                         |    | 15                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 15.00 - 15.10<br>15.00                                                              |  | ES<br>PID                  | 46             | N = 35 (S)              |    | 15                                                                                                                                                                                                                                                                                                                                                                                                                    | (6.00)                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 16.00 - 16.45<br>16.00 - 16.45                                                      |  | D<br>SPT                   | 47             |                         |    | 16                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 17.00 - 17.10                                                                       |  | D                          | 48             |                         |    | 17                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 18.00 - 18.45                                                                       |  | UT                         | 49             | 80/420 mm               | 18 | Very stiff, fissured, grey, slightly sandy CLAY. With occasional partings (<1 mm) of light grey silt. With occasional shell fragments (<30x40 mm). With rare pockets (<30x70 mm) of dark grey and black, fine sand. With rare bioturbation burrows (<3x20 mm). Sand is mainly fine. Fissures are randomly orientated, very closely and closely spaced, planar, smooth and polished.<br>[LONDON CLAY FORMATION] [CLAY] |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  | 18.00 | 2.73                  |                 |                                                                                     |              |                                                                                     |  |
| 18.45 - 18.50<br>18.50 - 18.60<br>18.50                                             |  | D<br>ES<br>PID             | 50<br>51       | < 0.1 ppm               | 19 |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 19.00 - 19.10                                                                       |  | D                          | 52             | 19                      |    |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| 20.00 - 20.45<br>20.00 - 20.45                                                      |  | B<br>D                     | 54<br>53       |                         |    | Continued next page                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| Notes                                                                               |  |                            |                |                         |    |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |  |                            |                |                         |    |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       |                       |                 |                                                                                     |              |                                                                                     |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |  |                            |                |                         |    |                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |       | Print Date            |                 | 27/02/2020                                                                          |              |                                                                                     |  |

|                                                                                     |                       |          |                            |                            |                            |                       |                 |        |              |                         |  |
|-------------------------------------------------------------------------------------|-----------------------|----------|----------------------------|----------------------------|----------------------------|-----------------------|-----------------|--------|--------------|-------------------------|--|
|    | Contract Name         |          | HAL Airport Expansion      |                            |                            | Location ID           |                 |        |              |                         |  |
|                                                                                     | Client                |          | Heathrow Airport Limited   |                            |                            | HEP-BH-2515           |                 |        |              |                         |  |
|                                                                                     | Fugro Reference       |          | G190012U                   |                            |                            |                       |                 |        |              |                         |  |
|                                                                                     | Coordinates (m)       |          | E502963.41 N176310.96      | Ground Elevation (m Datum) | 20.73                      | Sheet 3 of 3          |                 |        |              |                         |  |
|                                                                                     | Hole Type             |          | Cable Percussion           |                            |                            | Status                |                 | Final  |              |                         |  |
| Sampling and In Situ Testing                                                        |                       |          |                            | Strata Details             |                            |                       |                 |        |              | Groundwater             |  |
| Depth (m)                                                                           | Type                  | No.      | Test Results               | Depth (m)                  | Strata Descriptions        | Depth (Thickness) (m) | Level (m Datum) | Legend | Water Strike | Backfill / Installation |  |
| 20.00 - 20.45                                                                       | SPT                   |          | N = 41 (S)                 |                            |                            |                       |                 |        |              |                         |  |
| 21.00 - 21.10                                                                       | D                     | 55       |                            | 21                         |                            |                       |                 |        |              |                         |  |
| 21.50 - 21.60<br>21.50                                                              | ES<br>PID             | 56       | < 0.1 ppm                  |                            |                            |                       |                 |        |              |                         |  |
| 22.00 - 22.45                                                                       | UT                    | 57       | 100/400 mm                 | 22                         |                            | (8.00)                |                 |        |              |                         |  |
| 22.45 - 22.50                                                                       | D                     | 58       |                            |                            |                            |                       |                 |        |              |                         |  |
| 23.00 - 23.10                                                                       | D                     | 59       |                            | 23                         |                            |                       |                 |        |              |                         |  |
| 24.00 - 24.10<br>24.00 - 24.45<br>24.00 - 24.41<br>24.00                            | ES<br>D<br>SPT<br>PID | 61<br>60 | 50/260 mm (S)<br>< 0.1 ppm | 24                         |                            |                       |                 |        |              |                         |  |
| 25.00 - 25.10<br>25.00 - 25.50                                                      | D<br>B                | 62<br>63 |                            | 25                         |                            |                       |                 |        |              |                         |  |
|                                                                                     |                       |          |                            | 26                         | End of Borehole at 26.00 m | 26.00                 | -5.27           |        |              |                         |  |
|                                                                                     |                       |          |                            | 27                         |                            |                       |                 |        |              |                         |  |
|                                                                                     |                       |          |                            | 28                         |                            |                       |                 |        |              |                         |  |
|                                                                                     |                       |          |                            | 29                         |                            |                       |                 |        |              |                         |  |
| Notes                                                                               |                       |          |                            |                            |                            |                       |                 |        |              |                         |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                       |          |                            |                            |                            |                       |                 |        |              |                         |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                       |          |                            |                            |                            |                       | Print Date      |        | 27/02/2020   |                         |  |

|                                                                                                                                                                                   |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|----------------------------|-------------------------|--------------------|------------------------|------------------|--------------------------------------|---------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|---------------|
|                                                                                                  | Contract Name   |                       | HAL Airport Expansion    |                          |                            |                         | Location ID        |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
|                                                                                                                                                                                   | Client          |                       | Heathrow Airport Limited |                          |                            |                         | <b>HEP-BH-2515</b> |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
|                                                                                                                                                                                   | Fugro Reference |                       | G190012U                 |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
|                                                                                                                                                                                   | Coordinates (m) |                       | E502963.41 N176310.96    |                          | Ground Elevation (m Datum) |                         | 20.73              |                        | Sheet 1 of 1     |                                      |                                       |                                                                  |                                                                    |               |
|                                                                                                                                                                                   | Hole Type       |                       | Cable Percussion         |                          |                            |                         | Status             |                        | Final            |                                      |                                       |                                                                  |                                                                    |               |
| Equipment                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Depth From (m)                                                                                                                                                                    | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel             | Core Bit           | Drilling Crew          | Logged By        | Remarks                              |                                       |                                                                  |                                                                    |               |
| 0.00<br>1.20                                                                                                                                                                      | 1.20<br>26.00   | IP<br>CP              | 16/05/2019<br>16/05/2019 | 16/05/2019<br>20/05/2019 | Hand-dug<br>Dando 3000     |                         |                    | JT<br>JT               | RS<br>RS         |                                      |                                       |                                                                  |                                                                    |               |
| Progress                                                                                                                                                                          |                 |                       |                          |                          |                            | Rotary Details          |                    |                        |                  |                                      |                                       | Core Details                                                     |                                                                    |               |
| Date (dd/mm/yyyy)                                                                                                                                                                 | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)          | Depth To (m)       | Flush Type             | Flush Return (%) | Flush Colour                         | Run Time (hh:mm)                      | Depth From (m)                                                   | Depth To (m)                                                       | Diameter (mm) |
| 16/05/2019                                                                                                                                                                        | 15:15:00        | 0.00                  |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| 16/05/2019                                                                                                                                                                        | 16:00:00        | 1.20                  |                          |                          | Dry                        |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| 16/05/2019                                                                                                                                                                        | 16:30:00        | 1.50                  | 1.50                     |                          | Dry                        |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| 17/05/2019                                                                                                                                                                        | 08:00:00        | 1.50                  | 1.50                     |                          | Dry                        |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| 17/05/2019                                                                                                                                                                        | 18:00:00        | 7.50                  | 6.30                     |                          | Dry                        |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| 20/05/2019                                                                                                                                                                        | 08:30:00        | 7.50                  | 6.30                     |                          | Dry                        |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| 20/05/2019                                                                                                                                                                        | 18:00:00        | 26.00                 | 8.00                     |                          | Dry                        |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Hole and Casing                                                                                                                                                                   |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Depth To (m)                                                                                                                                                                      |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                            | Casing Diameter (mm)    |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| 7.50<br>26.00                                                                                                                                                                     |                 | 200<br>150            |                          | 6.30<br>8.00             |                            | 200<br>150              |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Chiselling / Slow Progress                                                                                                                                                        |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Depth From (m)                                                                                                                                                                    |                 | Depth To (m)          |                          | Duration (hh:mm)         |                            | Tool / Remark           |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
|                                                                                                                                                                                   |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Water Strike                                                                                                                                                                      |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Strike At (m)                                                                                                                                                                     |                 | Rise To (m)           |                          | Time Elapsed (mins)      |                            | Casing Depth (m)        |                    | Depth Sealed (m)       |                  | Depth From (m)                       |                                       | Depth To (m)                                                     |                                                                    |               |
| 2.50                                                                                                                                                                              |                 | 1.90                  |                          | 20                       |                            | 2.50                    |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Water Strike Remarks                                                                                                                                                              |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| General Remarks                                                                                                                                                                   |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Installation                                                                                                                                                                      |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Type                                                                                                                                                                              | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)           | Base Depth (m)     | Diameter (mm)          | Type             | Depth From (m)                       | Depth To (m)                          | Backfill Material                                                | Date                                                               |               |
| SP                                                                                                                                                                                | 1               | 1.90                  | 4.80                     | 20/05/2019               | Pipe1<br>Pipe1             | 0.10<br>2.00            | 2.00<br>4.80       | 50<br>50               | Plain<br>Slotted | 0.00<br>0.05<br>0.20<br>1.90<br>4.80 | 0.05<br>0.20<br>1.90<br>4.80<br>26.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Grout | 20/05/2019<br>20/05/2019<br>20/05/2019<br>20/05/2019<br>20/05/2019 |               |
| Notes                                                                                                                                                                             |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                                               |                 |                       |                          |                          |                            |                         |                    |                        |                  |                                      |                                       |                                                                  |                                                                    |               |
| Checked By                                                                                                                                                                        |                 | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined |                    | Grid Coordinate System |                  | OSGB                                 |                                       |                                                                  |                                                                    |               |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                                                        |                 |                       |                          |                          |                            |                         |                    |                        |                  | Print Date                           |                                       | 27/02/2020                                                       |                                                                    |               |

[illegible]

|                                                                                     |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
|-------------------------------------------------------------------------------------|------|-----|--------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |      |     |              | Contract Name   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | HAL Airport Expansion                                                                 |                                                                                       |                                                                                       | Location ID                                                                         |                                                                                       | HEP-BH-2516                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
|                                                                                     |      |     |              | Client          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | Heathrow Airport Limited                                                              |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
|                                                                                     |      |     |              | Fugro Reference |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | G190012U                                                                              |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
|                                                                                     |      |     |              | Coordinates (m) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | E503022.56 N176305.81                                                                 |                                                                                       | Ground Elevation (m Datum)                                                            | 20.55                                                                               | Sheet 1 of 2                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
|                                                                                     |      |     |              | Hole Type       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | Cable Percussion                                                                      |                                                                                       |                                                                                       | Status                                                                              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       | Final                                                                                 |                                                                                       |                                                                                     |
| Sampling and In Situ Testing                                                        |      |     |              | Strata Details  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| Depth (m)                                                                           | Type | No. | Test Results | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Depth (Thickness) (m) | Level (m Datum)                                                                       | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.15 - 0.25                                                                         | D    | 3   | < 0.1 ppm    | 1               | MADE GROUND: brown, slightly sandy, slightly gravelly silt. With some roots and rootlets (<1x10 mm). Sand is fine and medium. Gravel is subangular and subrounded, fine and medium of flint and brick.<br>[MADE GROUND] [SILT]<br>MADE GROUND: brown, slightly sandy, slightly gravelly silt. With rare roots and rootlets (<1x5 mm). Sand is fine to coarse. Gravel is subangular and subrounded, fine and medium of flint, brick and concrete.<br>[MADE GROUND] [SILT]<br>MADE GROUND: dark brown, slightly sandy, clayey gravel. With rare fragments of metal wire (<3x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [GRAVEL]<br>MADE GROUND: (soft), black, brown and grey, slightly sandy, gravelly clay. With occasional fragments of metal (<2x30x60 mm) (2%). With rare fragments of black fabric (<5x50x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [CLAY]<br>At 1.10 m; with rare fragments of black fabric (5x50x200 mm) (<1%). Between 2.00 m and 2.20 m; grey and very sandy.<br>MADE GROUND: (firm), black, dark and light grey, slightly sandy, slightly gravelly clay. With occasional fragments of glass (<3x60x70 mm) (5%), metal bands and metal wire (<1x200x300 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY] | (0.15)                | 20.40                                                                                 |    |    |  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.15 - 0.25                                                                         | ES   | 2   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.15                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.15 - 0.30                                                                         | B    | 1   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (0.30)                |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.15                                                                                | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.45                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     | 20.10                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.50 - 0.60                                                                         | D    | 6   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (0.45)                |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.50 - 0.60                                                                         | ES   | 5   | < 0.1 ppm    | 1               | MADE GROUND: brown, slightly sandy, slightly gravelly silt. With rare roots and rootlets (<1x5 mm). Sand is fine to coarse. Gravel is subangular and subrounded, fine and medium of flint, brick and concrete.<br>[MADE GROUND] [SILT]<br>MADE GROUND: dark brown, slightly sandy, clayey gravel. With rare fragments of metal wire (<3x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [GRAVEL]<br>MADE GROUND: (soft), black, brown and grey, slightly sandy, gravelly clay. With occasional fragments of metal (<2x30x60 mm) (2%). With rare fragments of black fabric (<5x50x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [CLAY]<br>At 1.10 m; with rare fragments of black fabric (5x50x200 mm) (<1%). Between 2.00 m and 2.20 m; grey and very sandy.<br>MADE GROUND: (firm), black, dark and light grey, slightly sandy, slightly gravelly clay. With occasional fragments of glass (<3x60x70 mm) (5%), metal bands and metal wire (<1x200x300 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]                                                                                                                                                                                                                                   | (0.45)                | 19.65                                                                                 |    |    |  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.50 - 0.70                                                                         | B    | 4   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.90                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.50                                                                                | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.90                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.90 - 1.00                                                                         | D    | 9   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | < 0.1 ppm             |                                                                                       |                                                                                       |                                                                                       |                                                                                     | 2                                                                                     | MADE GROUND: dark brown, slightly sandy, clayey gravel. With rare fragments of metal wire (<3x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [GRAVEL]<br>MADE GROUND: (soft), black, brown and grey, slightly sandy, gravelly clay. With occasional fragments of metal (<2x30x60 mm) (2%). With rare fragments of black fabric (<5x50x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [CLAY]<br>At 1.10 m; with rare fragments of black fabric (5x50x200 mm) (<1%). Between 2.00 m and 2.20 m; grey and very sandy.<br>MADE GROUND: (firm), black, dark and light grey, slightly sandy, slightly gravelly clay. With occasional fragments of glass (<3x60x70 mm) (5%), metal bands and metal wire (<1x200x300 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY] | (2.10)                                                                                |    |    |  |
| 0.90 - 1.00                                                                         | ES   | 8   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (2.10)                                                                                |                                                                                       |                                                                                       |                                                                                     |
| 0.90 - 1.20                                                                         | B    | 7   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 0.90                                                                                | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 1.50 - 1.60                                                                         | ES   | 12  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 1.50 - 1.95                                                                         | D    | 10  | < 0.1 ppm    | 2               | MADE GROUND: dark brown, slightly sandy, clayey gravel. With rare fragments of metal wire (<3x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [GRAVEL]<br>MADE GROUND: (soft), black, brown and grey, slightly sandy, gravelly clay. With occasional fragments of metal (<2x30x60 mm) (2%). With rare fragments of black fabric (<5x50x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [CLAY]<br>At 1.10 m; with rare fragments of black fabric (5x50x200 mm) (<1%). Between 2.00 m and 2.20 m; grey and very sandy.<br>MADE GROUND: (firm), black, dark and light grey, slightly sandy, slightly gravelly clay. With occasional fragments of glass (<3x60x70 mm) (5%), metal bands and metal wire (<1x200x300 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (2.10)                |    |    |    |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 1.50 - 2.00                                                                         | B    | 11  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (2.10)                |                                                                                       |                                                                                       |                                                                                       | 17.55                                                                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                       |                                                                                       |                                                                                     |
| 1.50                                                                                | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 2.50 - 2.60                                                                         | D    | 15  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 2.50 - 2.60                                                                         | ES   | 14  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 2.50 - 2.80                                                                         | B    | 13  | < 0.1 ppm    | 3               | MADE GROUND: (soft), black, brown and grey, slightly sandy, gravelly clay. With occasional fragments of metal (<2x30x60 mm) (2%). With rare fragments of black fabric (<5x50x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [CLAY]<br>At 1.10 m; with rare fragments of black fabric (5x50x200 mm) (<1%). Between 2.00 m and 2.20 m; grey and very sandy.<br>MADE GROUND: (firm), black, dark and light grey, slightly sandy, slightly gravelly clay. With occasional fragments of glass (<3x60x70 mm) (5%), metal bands and metal wire (<1x200x300 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.00                  |    |    |    |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 2.50                                                                                | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (1.10)                |                                                                                       |                                                                                       |                                                                                       | 16.45                                                                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                       |                                                                                       |                                                                                     |
| 3.50 - 3.60                                                                         | D    | 18  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 3.50 - 3.60                                                                         | ES   | 17  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 3.50 - 3.80                                                                         | B    | 16  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 3.50                                                                                | PID  |     | < 0.1 ppm    | 4               | MADE GROUND: (soft), black, brown and grey, slightly sandy, gravelly clay. With occasional fragments of metal (<2x30x60 mm) (2%). With rare fragments of black fabric (<5x50x200 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Slight organic odour.<br>[MADE GROUND] [CLAY]<br>At 1.10 m; with rare fragments of black fabric (5x50x200 mm) (<1%). Between 2.00 m and 2.20 m; grey and very sandy.<br>MADE GROUND: (firm), black, dark and light grey, slightly sandy, slightly gravelly clay. With occasional fragments of glass (<3x60x70 mm) (5%), metal bands and metal wire (<1x200x300 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (1.10)                |   |   |   |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 4.10 - 4.20                                                                         | D    | 21  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (4.10)                |                                                                                       |                                                                                       |                                                                                       | 16.45                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                       |                                                                                       |                                                                                     |
| 4.10 - 4.20                                                                         | ES   | 20  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 4.10 - 4.40                                                                         | B    | 19  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 4.10                                                                                | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 5.00 - 5.45                                                                         | D    | 22  | N = 8 (C)    | 5               | Between 5.00 m and 5.45 m; loose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (2.10)                |  |  |  |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 5.00 - 5.50                                                                         | B    | 23  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 5.00 - 5.45                                                                         | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 6.20 - 6.30                                                                         | D    | 26  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       | 6                                                                                   | 6.20                                                                                  | 14.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                     |
| 6.20 - 6.30                                                                         | ES   | 25  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 6.20 - 6.50                                                                         | B    | 24  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 6.20                                                                                | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 6.50 - 6.95                                                                         | UT   | 27  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 6.95 - 7.00                                                                         | D    | 28  | < 0.1 ppm    | 7               | Firm and stiff, fissured, grey CLAY. With occasional pockets (<10x10 mm) of orange clay. With rare bioturbation burrows (<1x2 mm) and partings (<1 mm) of light grey silt. Fissures are randomly orientated, very closely and closely spaced, planar, smooth and polished.<br>[LONDON CLAY FORMATION] [CLAY]<br>Between 6.20 m and 6.80 m; fissures not discernable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (5.30)                |  |  |  |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 7.50 - 7.60                                                                         | D    | 29  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 8.00 - 8.45                                                                         | D    | 30  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 8.00 - 8.45                                                                         | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 8.50 - 8.60                                                                         | ES   | 31  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 8.50                                                                                | PID  |     | < 0.1 ppm    | 8               | Between 8.50 m and 11.00 m; stiff.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (5.30)                |  |  |  |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 9.00 - 9.10                                                                         | D    | 32  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 9.50 - 9.95                                                                         | UT   | 33  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 9.50 - 9.95                                                                         | UT   | 33  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       | 9                                                                                   | Between 9.00 m and 16.50 m; with occasional selenite crystals (<1 mm).                | Between 9.50 m and 9.95 m; high strength.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| 9.95 - 10.00                                                                        | D    | 34  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| Continued next page                                                                 |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| Notes                                                                               |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                       | Print Date                                                                            | 27/02/2020                                                                            |                                                                                     |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |



|                                                                                     |                 |          |                          |                |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
|-------------------------------------------------------------------------------------|-----------------|----------|--------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------|-------------------------|--|
|    | Contract Name   |          | HAL Airport Expansion    |                |                                                                                                                                                                                                                                                                                                                         | Location ID           |                 |            |              |                         |  |
|                                                                                     | Client          |          | Heathrow Airport Limited |                |                                                                                                                                                                                                                                                                                                                         | HEP-BH-2516           |                 |            |              |                         |  |
|                                                                                     | Fugro Reference |          | G190012U                 |                |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
|                                                                                     | Coordinates (m) |          | E503022.56 N176305.81    |                | Ground Elevation (m Datum)                                                                                                                                                                                                                                                                                              |                       | 20.55           |            | Sheet 2 of 2 |                         |  |
|                                                                                     | Hole Type       |          | Cable Percussion         |                |                                                                                                                                                                                                                                                                                                                         | Status                |                 | Final      |              |                         |  |
| Sampling and In Situ Testing                                                        |                 |          |                          | Strata Details |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              | Groundwater             |  |
| Depth (m)                                                                           | Type            | No.      | Test Results             | Depth (m)      | Strata Descriptions                                                                                                                                                                                                                                                                                                     | Depth (Thickness) (m) | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |  |
| 11.00 - 11.45<br>11.00 - 11.45                                                      | D<br>SPT        | 35       | N = 29 (S)               | 11             | Between 11.00 m and 11.50 m; possibly very stiff.                                                                                                                                                                                                                                                                       |                       |                 |            |              |                         |  |
| 11.50 - 11.60<br>11.50                                                              | ES<br>PID       | 36       | < 0.1 ppm                |                | Very stiff, fissured, grey CLAY. With occasional bioturbation burrows (<2x70 mm) and pockets (<30x50 mm) of black, fine sand. With rare partings (<1 mm) and pockets of light grey silt. Fissures are randomly orientated, very closely and closely spaced, planar, smooth and polished. [LONDON CLAY FORMATION] [CLAY] | 11.50                 | 9.05            |            |              |                         |  |
| 12.00 - 12.10                                                                       | D               | 37       |                          | 12             |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
| 13.00 - 13.45                                                                       | UT              | 38       | 50/100 mm                | 13             | Between 13.10 m and 13.40 m; with thin laminations (<3 mm) of claystone.                                                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
| 13.45 - 13.50                                                                       | D               | 39       |                          |                |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
|                                                                                     |                 |          |                          | 14             |                                                                                                                                                                                                                                                                                                                         | (5.00)                |                 |            |              |                         |  |
| 14.50 - 14.60<br>14.50                                                              | ES<br>PID       | 40       | < 0.1 ppm                |                |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
| 15.00 - 15.45<br>15.00 - 15.45                                                      | D<br>SPT        | 41       | N = 31 (S)               | 15             |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
| 16.00 - 16.50<br>16.00 - 16.50                                                      | B<br>D          | 43<br>42 |                          | 16             | Between 16.00 m and 16.50 m; slightly gravelly. Gravel is fine and medium.                                                                                                                                                                                                                                              |                       |                 |            |              |                         |  |
|                                                                                     |                 |          |                          |                | End of Borehole at 16.50 m                                                                                                                                                                                                                                                                                              | 16.50                 | 4.05            |            |              |                         |  |
|                                                                                     |                 |          |                          | 17             |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
|                                                                                     |                 |          |                          | 18             |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
|                                                                                     |                 |          |                          | 19             |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
| Notes                                                                               |                 |          |                          |                |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |          |                          |                |                                                                                                                                                                                                                                                                                                                         |                       |                 |            |              |                         |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |          |                          |                |                                                                                                                                                                                                                                                                                                                         | Print Date            |                 | 27/02/2020 |              |                         |  |

|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|----------------------------------|----------------------|-------------------------|------------------|------------------------|---------------------------------------|---------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|---------------|
|                                                                                                                                                                        | Contract Name   |                       | HAL Airport Expansion    |                          |                                  |                      | Location ID             |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
|                                                                                                                                                                                                                                                         | Client          |                       | Heathrow Airport Limited |                          |                                  |                      | <b>HEP-BH-2516</b>      |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
|                                                                                                                                                                                                                                                         | Fugro Reference |                       | G190012U                 |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
|                                                                                                                                                                                                                                                         | Coordinates (m) |                       | E503022.56 N176305.81    |                          | Ground Elevation (m Datum) 20.55 |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
|                                                                                                                                                                                                                                                         | Hole Type       |                       | Cable Percussion         |                          |                                  |                      | Sheet 1 of 1            |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  | Status               |                         | Final            |                        |                                       |                                       |                                                                       |                                                                    |               |
| Equipment                                                                                                                                                                                                                                               |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Depth From (m)                                                                                                                                                                                                                                          | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                        | Core Barrel          | Core Bit                | Drilling Crew    | Logged By              | Remarks                               |                                       |                                                                       |                                                                    |               |
| 0.00<br>1.20                                                                                                                                                                                                                                            | 1.20<br>16.50   | IP<br>CP              | 21/05/2019<br>21/05/2019 | 21/05/2019<br>23/05/2019 | Hand-dug.<br>Dando 3000          |                      |                         | JT<br>JT         | RS<br>RS               |                                       |                                       |                                                                       |                                                                    |               |
| Progress                                                                                                                                                                                                                                                |                 |                       |                          |                          | Rotary Details                   |                      |                         |                  |                        | Core Details                          |                                       |                                                                       |                                                                    |               |
| Date (dd/mm/yyyy)                                                                                                                                                                                                                                       | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                          | Depth From (m)       | Depth To (m)            | Flush Type       | Flush Return (%)       | Flush Colour                          | Run Time (hh:mm)                      | Depth From (m)                                                        | Depth To (m)                                                       | Diameter (mm) |
| 21/05/2019                                                                                                                                                                                                                                              | 08:00:00        | 0.00                  |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| 21/05/2019                                                                                                                                                                                                                                              | 09:00:00        | 1.20                  |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| 21/05/2019                                                                                                                                                                                                                                              | 18:00:00        | 8.00                  | 7.00                     |                          | Dry                              |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| 23/05/2019                                                                                                                                                                                                                                              | 08:00:00        | 8.00                  | 7.00                     |                          | Dry                              |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| 23/05/2019                                                                                                                                                                                                                                              | 18:00:00        | 16.50                 | 9.00                     |                          | Dry                              |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Hole and Casing                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Depth To (m)                                                                                                                                                                                                                                            |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                                  | Casing Diameter (mm) |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| 8.00<br>16.50                                                                                                                                                                                                                                           |                 | 200<br>150            |                          | 7.00<br>9.00             |                                  | 200<br>150           |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Chiselling / Slow Progress                                                                                                                                                                                                                              |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Depth From (m)                                                                                                                                                                                                                                          |                 | Depth To (m)          |                          | Duration (hh:mm)         |                                  | Tool / Remark        |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Water Strike                                                                                                                                                                                                                                            |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Strike At (m)                                                                                                                                                                                                                                           |                 | Rise To (m)           |                          | Time Elapsed (mins)      |                                  | Casing Depth (m)     |                         | Depth Sealed (m) |                        | Depth From (m)                        |                                       | Depth To (m)                                                          |                                                                    |               |
| 3.50                                                                                                                                                                                                                                                    |                 | 2.95                  |                          | 20                       |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Water Strike Remarks                                                                                                                                                                                                                                    |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| General Remarks                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. Bentonite seal placed between 6.20 m and 8.00 m as instructed by IDT. |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Installation                                                                                                                                                                                                                                            |                 |                       |                          |                          | Pipe                             |                      |                         |                  |                        | Backfill                              |                                       |                                                                       |                                                                    |               |
| Type                                                                                                                                                                                                                                                    | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                               | Top Depth (m)        | Base Depth (m)          | Diameter (mm)    | Type                   | Depth From (m)                        | Depth To (m)                          | Backfill Material                                                     | Date                                                               |               |
| SP                                                                                                                                                                                                                                                      | 1               | 4.10                  | 6.20                     | 23/05/2019               | Pipe1<br>Pipe1                   | -0.01<br>4.20        | 4.20<br>6.20            | 50<br>50         | Plain<br>Slotted       | -0.40<br>0.00<br>0.20<br>4.10<br>6.20 | 0.00<br>0.20<br>4.10<br>6.20<br>16.50 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Grout | 23/05/2019<br>23/05/2019<br>23/05/2019<br>23/05/2019<br>23/05/2019 |               |
| Notes                                                                                                                                                                                                                                                   |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                                                                                                                     |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       |                                       |                                                                       |                                                                    |               |
| Checked By                                                                                                                                                                                                                                              |                 | ROR                   |                          |                          | Elevation Datum                  |                      | Local Datum Not Defined |                  | Grid Coordinate System |                                       | OSGB                                  |                                                                       |                                                                    |               |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                                                                                                                              |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                       | Print Date                            |                                                                       | 27/02/2020                                                         |               |

[illegible]

|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
|----------------------------------------------------------------------------------------------|------|-----|--------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|--------|----------------------------|-------------------------|-------------|-------|
| <div></div> |      |     |              | Contract Name   |                                                                                                                                                                                                                                                                                                                                                     |                       | HAL Airport Expansion    |        |                            | Location ID             |             |       |
|                                                                                              |      |     |              | Client          |                                                                                                                                                                                                                                                                                                                                                     |                       | Heathrow Airport Limited |        |                            | HEP-BH-2517             |             |       |
|                                                                                              |      |     |              | Fugro Reference |                                                                                                                                                                                                                                                                                                                                                     |                       | G190012U                 |        |                            |                         |             |       |
|                                                                                              |      |     |              | Coordinates (m) |                                                                                                                                                                                                                                                                                                                                                     |                       | E502792.04 N176237.67    |        | Ground Elevation (m Datum) |                         |             |       |
|                                                                                              |      |     |              | Hole Type       |                                                                                                                                                                                                                                                                                                                                                     |                       | Cable Percussion         |        |                            | Status                  |             | Final |
| Sampling and In Situ Testing                                                                 |      |     |              | Strata Details  |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         | Groundwater |       |
| Depth (m)                                                                                    | Type | No. | Test Results | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                                                 | Depth (Thickness) (m) | Level (m Datum)          | Legend | Water Strike               | Backfill / Installation |             |       |
| 0.10 - 0.20                                                                                  | ES   | 2   | < 0.1 ppm    | 1               | MADE GROUND: (very soft), dark brown, slightly sandy, gravelly clay. Sand is medium and coarse. Gravel is subangular to rounded, fine and medium of flint, chalk, brick and concrete.<br>[MADE GROUND] [CLAY]<br>Between 0.30 m and 1.20 m; with occasional fragments of glass (<5x30 mm) (5%). IDT engineer noted rare fragments of plastic (<1%). | (2.00)                |                          |        |                            |                         |             |       |
| 0.10 - 0.60                                                                                  | B    | 1   |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 0.10                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 0.20 - 0.25                                                                                  | D    | 3   |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 1.20 - 1.30                                                                                  | ES   | 4   | 0.2 ppm      | 1               | Between 1.20 m and 2.00 m; concrete gravel is absent.                                                                                                                                                                                                                                                                                               |                       |                          |        |                            |                         |             |       |
| 1.20 - 1.50                                                                                  | B    | 6   |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 1.20                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 1.30 - 1.35                                                                                  | D    | 5   |              |                 | At 1.50 m; with a fragment of rubber mat (<20x200x200 mm).<br>Between 1.50 m and 2.00 m; IDT engineer noted rare fragments of black wood debris (D2) (<1%).                                                                                                                                                                                         |                       |                          |        |                            |                         |             |       |
| 2.00 - 2.10                                                                                  | ES   | 8   | 0.3 ppm      | 2               | MADE GROUND: (soft), black, slightly sandy, slightly gravelly clay. With occasional fragments of glass (<5x30 mm). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, brick and concrete.<br>[MADE GROUND] [CLAY]                                                                                                    | 2.00                  | 20.38                    |        |                            |                         |             |       |
| 2.00 - 2.50                                                                                  | B    | 7   |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 2.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 2.10 - 2.15                                                                                  | D    | 9   |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 3.00 - 3.10                                                                                  | ES   | 11  | < 0.1 ppm    | 3               |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 3.00 - 3.50                                                                                  | B    | 10  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 3.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 3.10 - 3.15                                                                                  | D    | 12  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 4.00 - 4.10                                                                                  | ES   | 14  | < 0.1 ppm    | 4               |                                                                                                                                                                                                                                                                                                                                                     | (4.90)                |                          |        |                            |                         |             |       |
| 4.00 - 4.50                                                                                  | B    | 13  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 4.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 4.10 - 4.15                                                                                  | D    | 15  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 5.00 - 5.10                                                                                  | ES   | 17  | < 0.1 ppm    | 5               |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 5.00 - 5.50                                                                                  | B    | 16  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 5.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 5.10 - 5.15                                                                                  | D    | 18  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 6.00 - 6.10                                                                                  | ES   | 20  | < 0.1 ppm    | 6               |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 6.00 - 6.50                                                                                  | B    | 19  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 6.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 6.10 - 6.15                                                                                  | D    | 21  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 7.10 - 7.20                                                                                  | ES   | 22  | < 0.1 ppm    | 7               | Orange, brown and grey, slightly sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL]                                                                                                                                                                               | 6.90                  | 15.48                    |        |                            |                         |             |       |
| 7.10                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 7.20 - 7.25                                                                                  | D    | 23  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 7.50 - 7.95                                                                                  | B    | 24  | N = 14 (C)   |                 |                                                                                                                                                                                                                                                                                                                                                     | 7.60                  | 14.78                    |        |                            |                         |             |       |
| 7.50 - 7.95                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 7.50 - 7.95                                                                                  |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 8.00 - 8.10                                                                                  | ES   | 25  | < 0.1 ppm    | 8               | Stiff, fissured, dark brownish grey, slightly sandy CLAY. Sand is fine to coarse. Fissures are randomly orientated, extremely closely spaced, mainly undulating, occasionally planar, rough and smooth.<br>[LONDON CLAY FORMATION] [CLAY]<br>Between 8.00 m and 8.50 m; slightly gravelly. Gravel is fine and medium.                               | (2.00)                |                          |        |                            |                         |             |       |
| 8.00 - 8.50                                                                                  | B    | 27  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 8.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 8.10 - 8.15                                                                                  | D    | 26  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 9.00 - 9.45                                                                                  | UT   | 28  | 60/450 mm    | 9               |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 9.45 - 9.50                                                                                  | D    | 29  | < 0.1 ppm    |                 | End of Borehole at 9.60 m                                                                                                                                                                                                                                                                                                                           | 9.60                  | 12.78                    |        |                            |                         |             |       |
| 9.50 - 9.60                                                                                  | ES   | 30  |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| 9.50                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| Notes                                                                                        |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'          |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       |                          |        |                            |                         |             |       |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW             |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                     |                       | Print Date               |        | 27/02/2020                 |                         |             |       |

|                                                                                     |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
|-------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|--------------------|------------------------|------------------|-------------------|--------------|---------------|--|
|    | Contract Name   |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                         |                  | Location ID        |                        |                  |                   |              |               |  |
|                                                                                     | Client          |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                         |                  | <b>HEP-BH-2517</b> |                        |                  |                   |              |               |  |
|                                                                                     | Fugro Reference |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
|                                                                                     | Coordinates (m) |                       | E502792.04 N176237.67    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                         | 22.38            |                    | Sheet 1 of 1           |                  |                   |              |               |  |
|                                                                                     | Hole Type       |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                         |                  | Status             |                        | Final            |                   |              |               |  |
| Equipment                                                                           |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| Depth From (m)                                                                      | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit                | Drilling Crew    | Logged By          | Remarks                |                  |                   |              |               |  |
| 0.00<br>1.20                                                                        | 1.20<br>9.60    | IP<br>CP              | 13/06/2019<br>18/06/2019 | 13/06/2019<br>18/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                         | SB<br>SB         | JJ<br>JJ           |                        |                  |                   |              |               |  |
| Progress                                                                            |                 |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                         |                  |                    |                        | Core Details     |                   |              |               |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)            | Flush Type       | Flush Return (%)   | Flush Colour           | Run Time (hh:mm) | Depth From (m)    | Depth To (m) | Diameter (mm) |  |
| 13/06/2019                                                                          | 10:15:00        | 0.00                  |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| 13/06/2019                                                                          | 11:00:00        | 1.20                  |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| 13/06/2019                                                                          | 18:00:00        | 1.50                  | 1.50                     |                          | Dry                    |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| 14/06/2019                                                                          | 09:45:00        | 1.50                  | 1.50                     |                          | Dry                    |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| 14/06/2019                                                                          | 11:45:00        | 6.50                  | 6.50                     |                          | Dry                    |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| 18/06/2019                                                                          | 14:15:00        | 6.50                  | 6.50                     |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| 18/06/2019                                                                          | 18:00:00        | 9.60                  | 8.00                     | 8.85                     |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| Hole and Casing                                                                     |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| Depth To (m)                                                                        |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                        | Casing Diameter (mm)                                                                                                                                                              |                         |                  |                    |                        |                  |                   |              |               |  |
| 9.60                                                                                |                 | 200                   |                          | 8.00                     |                        | 200                                                                                                                                                                               |                         |                  |                    |                        |                  |                   |              |               |  |
| Chiselling / Slow Progress                                                          |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| Depth From (m)                                                                      |                 | Depth To (m)          |                          | Duration (hh:mm)         |                        | Tool / Remark                                                                                                                                                                     |                         |                  |                    |                        |                  |                   |              |               |  |
| 1.30                                                                                |                 | 1.50                  |                          | 01:00                    |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| Water Strike                                                                        |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| Strike At (m)                                                                       |                 | Rise To (m)           |                          | Time Elapsed (mins)      |                        | Casing Depth (m)                                                                                                                                                                  |                         | Depth Sealed (m) |                    | Depth From (m)         |                  | Depth To (m)      |              |               |  |
| 4.00                                                                                |                 | 3.72                  |                          | 20                       |                        | 3.80                                                                                                                                                                              |                         |                  |                    |                        |                  |                   |              |               |  |
| Water Strike Remarks                                                                |                 |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
|                                                                                     |                 |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                         |                  |                    |                        |                  |                   |              |               |  |
| Installation                                                                        |                 |                       |                          |                          | Pipe                   |                                                                                                                                                                                   |                         |                  |                    | Backfill               |                  |                   |              |               |  |
| Type                                                                                | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m)          | Diameter (mm)    | Type               | Depth From (m)         | Depth To (m)     | Backfill Material | Date         |               |  |
| SP                                                                                  | 1               | 1.00                  | 6.40                     | 18/06/2019               | Pipe1                  | 0.16                                                                                                                                                                              | 1.20                    | 50               | Plain              | 0.00                   | 0.05             | Flush Cover       | 18/06/2019   |               |  |
|                                                                                     |                 |                       |                          |                          | Pipe1                  | 1.20                                                                                                                                                                              | 6.40                    | 50               | Slotted            | 0.05                   | 0.20             | Concrete          | 18/06/2019   |               |  |
|                                                                                     |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    | 0.20                   | 1.00             | Bentonite         | 18/06/2019   |               |  |
|                                                                                     |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    | 1.00                   | 6.40             | Gravel Backfill   | 18/06/2019   |               |  |
|                                                                                     |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    | 6.40                   | 9.60             | Bentonite         | 18/06/2019   |               |  |
| Notes                                                                               |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        |                  |                   |              |               |  |
| Checked By                                                                          |                 | ROR                   |                          |                          | Elevation Datum        |                                                                                                                                                                                   | Local Datum Not Defined |                  |                    | Grid Coordinate System |                  | OSGB              |              |               |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                 |                       |                          |                          |                        |                                                                                                                                                                                   |                         |                  |                    |                        | Print Date       |                   | 27/02/2020   |               |  |

[illegible]

|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|----------------------------------------------------------------------------------------------|------|-----|--------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|--|
| <div></div> |      |     |              | Contract Name   |                                                                                                                                                                                                                                                                                                                     |                       | HAL Airport Expansion      |                                                                                       |                                                                                       | Location ID                                                                           |             |  |
|                                                                                              |      |     |              | Client          |                                                                                                                                                                                                                                                                                                                     |                       | Heathrow Airport Limited   |                                                                                       |                                                                                       | HEP-BH-2518                                                                           |             |  |
|                                                                                              |      |     |              | Fugro Reference |                                                                                                                                                                                                                                                                                                                     |                       | G190012U                   |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              | Coordinates (m) |                                                                                                                                                                                                                                                                                                                     | E502893.59 N176247.83 | Ground Elevation (m Datum) |                                                                                       | 20.76                                                                                 |                                                                                       |             |  |
|                                                                                              |      |     |              | Hole Type       |                                                                                                                                                                                                                                                                                                                     | Cable Percussion      |                            | Status                                                                                |                                                                                       | Final                                                                                 |             |  |
| Sampling and In Situ Testing                                                                 |      |     |              | Strata Details  |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       | Groundwater |  |
| Depth (m)                                                                                    | Type | No. | Test Results | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                 | Depth (Thickness) (m) | Level (m Datum)            | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                               |             |  |
| 0.00 - 0.05                                                                                  | D    | 1   | < 0.1 ppm    |                 | MADE GROUND: brown, gravelly sand with low cobble content. With rare fragments of tarmacadam (<3x5 mm) and tile (<3x5 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<70x80x110 mm) are subangular of brick.<br>[MADE GROUND] [SAND]          | (0.50)                | 20.26                      |    |    |    |             |  |
| 0.00 - 0.10                                                                                  | ES   | 2   |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.00 - 0.50                                                                                  | LB   | 3   |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.00                                                                                         | PID  |     | < 0.1 ppm    |                 | MADE GROUND: dark brown, slightly silty, very gravelly sand with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<70x80x80 mm) are subangular of brick.<br>[MADE GROUND] [SAND]                                                 | (0.70)                | 19.56                      |    |    |    |             |  |
| 0.50 - 0.55                                                                                  | D    | 4   |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.50 - 0.60                                                                                  | ES   | 5   |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.50 - 1.00                                                                                  | LB   | 6   | < 0.1 ppm    |                 | MADE GROUND: dark grey, slightly sandy gravel. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint and brick.<br>[MADE GROUND] [GRAVEL]                                                                                                                                               | (0.50)                | 19.06                      |    |    |    |             |  |
| 0.50                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.20 - 1.25                                                                                  | D    | 7   |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.20 - 1.30                                                                                  | ES   | 8   | < 0.1 ppm    |                 | MADE GROUND: (firm), greenish grey, slightly gravelly clay. With occasional pockets (<8x20 mm) of sand. Gravel is angular and subangular, fine to coarse of flint and brick with rare concrete.<br>[MADE GROUND] [CLAY]                                                                                             | (0.60)                | 18.46                      |    |    |    |             |  |
| 1.20 - 1.70                                                                                  | B    | 9   |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.20                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.50 - 1.95                                                                                  | SPT  |     | N = 10 (C)   |                 | MADE GROUND: dark grey, clayey, sandy gravel with high cobble content. With rare fragments of glass (<3x3 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete. Cobbles (<85x102x110 mm) are angular and subangular of brick and concrete.<br>[MADE GROUND] [GRAVEL] | (0.90)                | 17.26                      |    |    |    |             |  |
| 1.70 - 1.75                                                                                  | D    | 10  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.70 - 1.80                                                                                  | ES   | 11  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.70 - 2.20                                                                                  | B    | 12  | < 0.1 ppm    |                 | MADE GROUND: (very soft and soft), dark grey, slightly sandy, slightly gravelly, silty clay. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete.<br>[MADE GROUND] [CLAY]                                                                                                | (1.40)                | 15.86                      |    |    |    |             |  |
| 1.70                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.30 - 2.35                                                                                  | D    | 13  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.30 - 2.40                                                                                  | ES   | 14  | < 0.1 ppm    |                 | Very soft and soft, brownish grey, slightly sandy SILT. Locally thinly laminated. With occasional partings (<2 mm) of fine and medium sand. Sand is fine to coarse.<br>[ALLUVIUM] [SILT]                                                                                                                            | (1.00)                | 14.86                      |    |    |    |             |  |
| 2.30 - 2.60                                                                                  | B    | 15  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.30                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.50 - 2.95                                                                                  | SPT  |     | N = 14 (C)   |                 | Grey, slightly clayey, sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL]                                                                                                                             | (1.60)                | 13.26                      |   |   |   |             |  |
| 2.60 - 2.65                                                                                  | D    | 16  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.60 - 2.70                                                                                  | ES   | 17  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.60 - 3.10                                                                                  | B    | 18  | < 0.1 ppm    |                 | Firm, brownish grey, slightly sandy CLAY. With rare shell fragments (<3x3 mm). Sand is fine to coarse.<br>[LONDON CLAY FORMATION] [CLAY]                                                                                                                                                                            | (1.00)                | 12.26                      |  |  |  |             |  |
| 2.60                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 3.50 - 3.55                                                                                  | D    | 20  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 3.50 - 3.60                                                                                  | ES   | 21  | N = 3 (S)    |                 | Stiff, brownish grey CLAY. With rare shell fragments (<3x3 mm).<br>[LONDON CLAY FORMATION] [CLAY]                                                                                                                                                                                                                   | (1.00)                | 11.26                      |  |  |  |             |  |
| 3.50 - 3.95                                                                                  | D    | 19  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 3.50 - 4.00                                                                                  | B    | 22  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 3.50 - 3.95                                                                                  | SPT  |     | < 0.1 ppm    |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 10.26                      |  |  |  |             |  |
| 3.50                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 4.50 - 4.55                                                                                  | D    | 24  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 4.50 - 4.60                                                                                  | ES   | 25  | N = 25 (S)   |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 9.26                       |  |  |  |             |  |
| 4.50 - 4.95                                                                                  | D    | 23  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 4.50 - 4.95                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 4.50                                                                                         | PID  |     | < 0.1 ppm    |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 8.26                       |  |  |  |             |  |
| 4.95 - 5.00                                                                                  | D    | 27  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 4.95 - 5.05                                                                                  | ES   | 28  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 4.95 - 5.45                                                                                  | B    | 29  | < 0.1 ppm    |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 7.26                       |  |  |  |             |  |
| 4.95                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 5.90 - 5.95                                                                                  | D    | 30  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 5.90 - 6.00                                                                                  | ES   | 31  | < 0.1 ppm    |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 6.26                       |  |  |  |             |  |
| 5.90 - 6.40                                                                                  | B    | 32  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 5.90                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.00 - 6.45                                                                                  | UT   | 33  | 65/450 mm    |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 5.26                       |  |  |  |             |  |
| 6.40 - 6.50                                                                                  | ES   | 35  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.40                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.45 - 6.50                                                                                  | D    | 34  | < 0.1 ppm    |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 4.26                       |  |  |  |             |  |
| 7.45 - 7.50                                                                                  | D    | 36  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 7.50 - 7.95                                                                                  | D    | 37  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 7.50 - 7.95                                                                                  | SPT  |     | N = 24 (S)   |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 3.26                       |  |  |  |             |  |
| 8.45 - 8.50                                                                                  | D    | 38  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 9.00 - 9.45                                                                                  | UT   | 39  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 9.40 - 9.50                                                                                  | ES   | 41  | < 0.1 ppm    |                 | Continued next page                                                                                                                                                                                                                                                                                                 | (1.00)                | 2.26                       |  |  |  |             |  |
| 9.40                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 9.45 - 9.50                                                                                  | D    | 40  |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| Continued next page                                                                          |      |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| Notes                                                                                        |      |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'          |      |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW             |      |     |              |                 |                                                                                                                                                                                                                                                                                                                     |                       | Print Date                 |                                                                                       | 27/02/2020                                                                            |                                                                                       |             |  |

|                                                                                     |                 |     |                          |                            |                                           |                       |                 |                                                                                     |              |                                                                                     |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|-------------------------------------------|-----------------------|-----------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                           | Location ID           |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                           | <b>HEP-BH-2518</b>    |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                           |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Coordinates (m) |     | E502893.59 N176247.83    | Ground Elevation (m Datum) | 20.76                                     | Sheet 2 of 2          |                 |                                                                                     |              |                                                                                     |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                           | Status                | Final           |                                                                                     |              |                                                                                     |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                           |                       |                 |                                                                                     | Groundwater  |                                                                                     |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                       | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                              | Water Strike | Backfill / Installation                                                             |
| 10.45 - 10.50                                                                       | D               | 42  | N = 25 (S)               | 11                         | Between 13.45 m and 13.50 m; clayey silt. | (8.40)                |                 |  |              |  |
| 11.00 - 11.45<br>11.00 - 11.45                                                      | D<br>SPT        | 43  |                          | 12                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
| 12.40 - 12.50<br>12.40                                                              | ES<br>PID       | 44  | < 0.1 ppm                | 13                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
| 12.45 - 12.50                                                                       | D               | 45  |                          |                            |                                           |                       |                 |                                                                                     |              |                                                                                     |
| 13.00 - 13.45                                                                       | UT              | 46  | 100/450 mm               | 14                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
| 13.45 - 13.50                                                                       | D               | 47  |                          | 15                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
| 14.45 - 14.50                                                                       | D               | 48  |                          | 16                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
| 15.00 - 15.45<br>15.00 - 15.45                                                      | D<br>SPT        | 49  | N = 31 (S)               | 17                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
| 15.40 - 15.50<br>15.40                                                              | ES<br>PID       | 50  | < 0.1 ppm                | 18                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
| 15.45 - 15.50                                                                       | D               | 51  |                          |                            |                                           |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 16                         | End of Borehole at 15.90 m                | 15.90                 | 4.86            |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 17                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 18                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
|                                                                                     |                 |     |                          | 19                         |                                           |                       |                 |                                                                                     |              |                                                                                     |
| Notes                                                                               |                 |     |                          |                            |                                           |                       |                 |                                                                                     |              |                                                                                     |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                           |                       |                 |                                                                                     |              |                                                                                     |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                           | Print Date            |                 | 27/02/2020                                                                          |              |                                                                                     |



|                                                                                     |                 |                       |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
|-------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|------------------------|--------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------|
|    | Contract Name   |                       | HAL Airport Expansion    |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        | Location ID        |                                               |                                               |                                                                                    |                                                                                  |               |
|                                                                                     | Client          |                       | Heathrow Airport Limited |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        | <b>HEP-BH-2518</b> |                                               |                                               |                                                                                    |                                                                                  |               |
|                                                                                     | Fugro Reference |                       | G190012U                 |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
|                                                                                     | Coordinates (m) |                       | E502893.59 N176247.83    |                          | Ground Elevation (m Datum)                                                                                                                                                                                                                                                            |                         | 20.76          |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
|                                                                                     | Hole Type       |                       | Cable Percussion         |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        | Status             | Final                                         |                                               |                                                                                    |                                                                                  |               |
| Equipment                                                                           |                 |                       |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Depth From (m)                                                                      | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                                                                                                                                                                                                                                                                             | Core Barrel             | Core Bit       | Drilling Crew          | Logged By          | Remarks                                       |                                               |                                                                                    |                                                                                  |               |
| 0.00<br>1.20                                                                        | 1.20<br>15.90   | IP<br>CP              | 06/06/2019<br>06/06/2019 | 06/06/2019<br>10/06/2019 | Hand-dug<br>Dando 3000                                                                                                                                                                                                                                                                |                         |                | CT<br>CT               | OJ<br>OJ           |                                               |                                               |                                                                                    |                                                                                  |               |
| Progress                                                                            |                 |                       |                          |                          | Rotary Details                                                                                                                                                                                                                                                                        |                         |                |                        |                    | Core Details                                  |                                               |                                                                                    |                                                                                  |               |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                                                                                                                                                                                                                                                                               | Depth From (m)          | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                                  | Run Time (hh:mm)                              | Depth From (m)                                                                     | Depth To (m)                                                                     | Diameter (mm) |
| 06/06/2019                                                                          | 09:30:00        | 0.00                  |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| 06/06/2019                                                                          | 11:00:00        | 1.20                  |                          |                          | Dry                                                                                                                                                                                                                                                                                   |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| 06/06/2019                                                                          | 18:00:00        | 7.95                  | 6.00                     |                          | Dry                                                                                                                                                                                                                                                                                   |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| 10/06/2019                                                                          | 08:00:00        | 7.95                  | 6.00                     |                          | Dry                                                                                                                                                                                                                                                                                   |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| 10/06/2019                                                                          | 18:00:00        | 15.90                 | 9.00                     |                          | Dry                                                                                                                                                                                                                                                                                   |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Hole and Casing                                                                     |                 |                       |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Depth To (m)                                                                        |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                                                                                                                                                                                                                                                                                       | Casing Diameter (mm)    |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| 7.95<br>15.90                                                                       |                 | 250<br>200            |                          | 6.00<br>9.00             |                                                                                                                                                                                                                                                                                       | 250<br>200              |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Chiselling / Slow Progress                                                          |                 |                       |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Depth From (m)                                                                      |                 | Depth To (m)          |                          | Duration (hh:mm)         |                                                                                                                                                                                                                                                                                       | Tool / Remark           |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| 1.25                                                                                |                 | 1.40                  |                          | 00:45                    |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Water Strike                                                                        |                 |                       |                          |                          | Water Added                                                                                                                                                                                                                                                                           |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Strike At (m)                                                                       | Rise To (m)     | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)                                                                                                                                                                                                                                                                        | Depth To (m)            |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
|                                                                                     |                 |                       |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Water Strike Remarks                                                                |                 |                       |                          |                          | General Remarks                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Groundwater was not encountered during excavation or boring.                        |                 |                       |                          |                          | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. Bentonite seal placed between 5.90 m and 7.90 m as instructed by IDT. Sample reference 26 not used. |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Installation                                                                        |                 |                       |                          |                          | Pipe                                                                                                                                                                                                                                                                                  |                         |                |                        |                    | Backfill                                      |                                               |                                                                                    |                                                                                  |               |
| Type                                                                                | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                                                                                                                                                                                                                                                                                    | Top Depth (m)           | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)                                | Depth To (m)                                  | Backfill Material                                                                  | Date                                                                             |               |
| SP                                                                                  | 1               | 0.70                  | 3.00                     | 10/06/2019               | Pipe1<br>Pipe1                                                                                                                                                                                                                                                                        | 0.00<br>0.70            | 0.70<br>3.00   | 50<br>50               | Plain<br>Slotted   | -0.41<br>0.00<br>0.20<br>0.70<br>3.00<br>3.50 | 0.00<br>0.20<br>0.70<br>3.00<br>3.50<br>15.90 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite<br>Grout | 10/06/2019<br>10/06/2019<br>10/06/2019<br>10/06/2019<br>10/06/2019<br>10/06/2019 |               |
| Notes                                                                               |                 |                       |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                       |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               |                                               |                                                                                    |                                                                                  |               |
| Checked By                                                                          |                 | ROR                   |                          | Elevation Datum          |                                                                                                                                                                                                                                                                                       | Local Datum Not Defined |                | Grid Coordinate System |                    | OSGB                                          |                                               |                                                                                    |                                                                                  |               |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                 |                       |                          |                          |                                                                                                                                                                                                                                                                                       |                         |                |                        |                    |                                               | Print Date                                    |                                                                                    | 27/02/2020                                                                       |               |

[illegible]

|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|----------------------------------------------------------------------------------------------|------|-----|--------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|-----------------------|----------------------------|---------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|
| <div></div> |      |     |              | Contract Name   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | HAL Airport Expansion    |                       |                            | Location ID<br><b>HEP-BH-2519</b>                                                     |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              | Client          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Heathrow Airport Limited |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              | Fugro Reference |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | G190012U                 |                       |                            | Sheet 1 of 1                                                                          |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              | Coordinates (m) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | E502849.63 N176190.51    |                       | Ground Elevation (m Datum) |                                                                                       |              |                                                                                       | 20.74                                                                                                                                                                                                                                                                                                                                                    |  |       |
|                                                                                              |      |     |              | Hole Type       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Cable Percussion         |                       |                            |                                                                                       |              |                                                                                       | Status                                                                                                                                                                                                                                                                                                                                                   |  | Final |
| Sampling and In Situ Testing                                                                 |      |     |              | Strata Details  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              | Groundwater                                                                           |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| Depth (m)                                                                                    | Type | No. | Test Results | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                          | Depth (Thickness) (m) | Level (m Datum)            | Legend                                                                                | Water Strike | Backfill / Installation                                                               |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.00 - 0.05                                                                                  | D    | 1   | < 0.1 ppm    |                 | MADE GROUND: dark brown and grey, slightly silty, gravelly sand with low cobble content. With rare fragments of tile (<3x3 mm) (<1%) and clinker (<60 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick, concrete and coal. Cobbles (<15x70x70 mm) are subangular of concrete. [MADE GROUND] [SAND]                                                                                                               |  |                          | (0.80)                |                            |    |              |    |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.00 - 0.10                                                                                  | ES   | 2   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.00 - 0.50                                                                                  | LB   | 3   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.50 - 0.55                                                                                  | D    | 4   | 0.3 ppm      | 1               | MADE GROUND: (soft), brownish grey, locally mottled green and black, slightly sandy, gravelly clay with low cobble content. With rare fragments of plastic (<8x10 mm) (<1%) and clinker (<60 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick, concrete and coal. Cobbles (<70x70x75 mm) are subangular of brick. [MADE GROUND] [CLAY]                                                                           |  |                          | 0.80                  | 19.94                      |    |              |    |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.80 - 0.85                                                                                  | D    | 5   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.80 - 0.90                                                                                  | ES   | 6   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.80 - 1.00                                                                                  | B    | 7   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 0.80                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.00 - 1.05                                                                                  | D    | 8   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.00 - 1.10                                                                                  | ES   | 9   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.00 - 1.40                                                                                  | LB   | 10  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.40 - 1.45                                                                                  | D    | 11  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          | 0.2 ppm               | 2                          |                                                                                       |              |                                                                                       | MADE GROUND: (soft), dark grey and black, slightly gravelly, very sandy clay. With occasional fragments of mop string (<2x8 mm) (2%) and clinker (<60 mm) (2%). With rare fragments of wood debris (<20x30 mm) (D1) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick, clinker and concrete. [MADE GROUND] [CLAY] |  |       |
| 1.40 - 1.50                                                                                  | ES   | 12  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.40 - 1.90                                                                                  | LB   | 13  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.40                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.50 - 1.95                                                                                  | D    | 14  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 1.50 - 1.95                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 2.40 - 2.45                                                                                  | D    | 15  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 2.40 - 2.50                                                                                  | ES   | 16  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 2.40                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 2.50 - 2.95                                                                                  | D    | 17  | < 0.1 ppm    | 3               | MADE GROUND: (soft and firm), greyish brown, mottled orange and brown, slightly sandy, slightly gravelly clay with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete. Cobbles (<85x102x110 mm) are subangular of brick and concrete. [MADE GROUND] [CLAY]                                                                                                                                          |  |                          |                       |                            | (2.10)                                                                                |              |    |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 2.50 - 2.95                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 3.40 - 3.45                                                                                  | D    | 18  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 3.40 - 3.50                                                                                  | ES   | 19  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 3.40                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 3.50 - 3.55                                                                                  | D    | 21  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 3.50 - 3.60                                                                                  | ES   | 22  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 3.50 - 4.00                                                                                  | LB   | 20  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 3.50 - 3.95                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 3.50                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 4.50 - 4.55                                                                                  | D    | 23  | 0.3 ppm      | 4               | MADE GROUND: (very soft and soft), dark grey and black, locally mottled greyish brown, slightly sandy, very gravelly clay. With occasional fragments of wire wool (<3x3 mm) (2%). With rare fragments of wood debris (<30x40 mm) (D1) (<1%), plastic sheet (<15x40x65 mm) (<1%) and glass (<3x3 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. With a slight organic odour. [MADE GROUND] [CLAY] |  |                          | (1.60)                |                            |    |              |    |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 4.50 - 4.60                                                                                  | ES   | 24  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 4.50                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 5.10 - 5.15                                                                                  | D    | 25  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 5.10 - 5.20                                                                                  | ES   | 26  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 5.10 - 5.60                                                                                  | B    | 27  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 5.10                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.00 - 6.50                                                                                  | B    | 28  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.00 - 6.45                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.10 - 6.15                                                                                  | D    | 29  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.10 - 6.20                                                                                  | ES   | 30  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.10                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.40 - 6.45                                                                                  | D    | 31  | < 0.1 ppm    | 5               | Grey, slightly clayey, very sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint. Cobbles (<65x70x70 mm) are subangular of flint. [RIVER TERRACE DEPOSITS] [GRAVEL]                                                                                                                                                                                                                              |  |                          | 5.10                  | 15.64                      |   |              |   |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.40 - 6.50                                                                                  | ES   | 32  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.40 - 6.90                                                                                  | B    | 33  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.40                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.90 - 7.00                                                                                  | ES   | 34  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 6.90                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 7.50 - 7.95                                                                                  | UT   | 35  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 7.95 - 8.00                                                                                  | D    | 36  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
| 8.35 - 8.40                                                                                  | D    | 37  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          | < 0.1 ppm             | 6                          |                                                                                       |              |                                                                                       | Between 6.00 m and 6.45 m; medium dense.                                                                                                                                                                                                                                                                                                                 |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     | < 0.1 ppm    | 7               | Firm and stiff, greyish brown, slightly sandy CLAY. With occasional shell fragments (<3x5 mm). Sand is fine to coarse. [LONDON CLAY FORMATION] [CLAY]                                                                                                                                                                                                                                                                                                               |  |                          | 6.40                  | 14.34                      |  |              |  |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
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|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     | < 0.1 ppm    | 8               | Between 6.40 m and 6.90 m; slightly gravelly. Gravel is fine and medium.                                                                                                                                                                                                                                                                                                                                                                                            |  |                          | (2.00)                |                            |  |              |  |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
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|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
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|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     | < 0.1 ppm    | 9               | End of Borehole at 8.40 m                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                          | 8.40                  | 12.34                      |  |              |  |                                                                                                                                                                                                                                                                                                                                                          |  |       |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
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|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                          |                       |                            |                                                                                       |              |                                                                                       |                                                                                                                                                                                                                                                                                                                                                          |  |       |
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Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW

Print Date

27/02/2020

|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|--------------------|--------------------------------------|--------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                |                        | Location ID        |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                |                        | <b>HEP-BH-2519</b> |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502849.63 N176190.51    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                | 20.74                  |                    | Sheet 1 of 1                         |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                |                        | Status             |                                      | Final                                |                                                                      |                                                                    |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By          | Remarks                              |                                      |                                                                      |                                                                    |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>8.40                     | IP<br>CP              | 11/06/2019<br>11/06/2019 | 11/06/2019<br>11/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                | CT<br>CT               | OJ<br>OJ           |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                |                        |                    |                                      | Core Details                         |                                                                      |                                                                    |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%)   | Flush Colour                         | Run Time (hh:mm)                     | Depth From (m)                                                       | Depth To (m)                                                       | Diameter (mm) |                      |  |
| 11/06/2019<br>11/06/2019<br>11/06/2019                                              | 11:00:00<br>12:00:00<br>16:30:00 | 0.00<br>1.20<br>8.40  | 7.00                     | Dry<br>Dry               |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               | Casing Diameter (mm) |  |
| 8.40                                                                                |                                  | 250                   |                          | 7.00                     |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               | 250                  |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                        | Water Added                                                                                                                                                                       |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)         | Depth To (m)                                                                                                                                                                      |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| 4.20                                                                                | 2.30                             | 20                    | 4.10                     |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                   |                                                                                                                                                                                   |                |                        |                    | Backfill                             |                                      |                                                                      |                                                                    |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type               | Depth From (m)                       | Depth To (m)                         | Backfill Material                                                    | Date                                                               |               |                      |  |
| SP                                                                                  | 1                                | 3.40                  | 4.60                     | 11/06/2019               | Pipe1<br>Pipe1         | 0.07<br>3.60                                                                                                                                                                      | 3.60<br>4.60   | 50<br>50               | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>3.40<br>4.60 | 0.05<br>0.20<br>3.40<br>4.60<br>8.40 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 11/06/2019<br>11/06/2019<br>11/06/2019<br>11/06/2019<br>11/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                    | OSGB                                 |                                      |                                                                      |                                                                    |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                    | Print Date                           |                                      | 27/02/2020                                                           |                                                                    |               |                      |  |

[illegible]

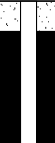
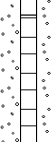
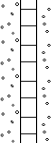
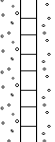
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
|----------------------------------------------------------------------------------------------|------|-----|--------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|--|
| <div></div> |      |     |              | Contract Name   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | HAL Airport Expansion      |                                                                                       |                                                                                     | Location ID                                                                           |             |  |
|                                                                                              |      |     |              | Client          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | Heathrow Airport Limited   |                                                                                       |                                                                                     | HEP-BH-2520                                                                           |             |  |
|                                                                                              |      |     |              | Fugro Reference |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | G190012U                   |                                                                                       |                                                                                     |                                                                                       |             |  |
|                                                                                              |      |     |              | Coordinates (m) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | E502944.62 N176179.51 | Ground Elevation (m Datum) |                                                                                       | 20.41                                                                               |                                                                                       |             |  |
|                                                                                              |      |     |              | Hole Type       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cable Percussion      |                            |                                                                                       | Status                                                                              |                                                                                       | Final       |  |
| Sampling and In Situ Testing                                                                 |      |     |              | Strata Details  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       | Groundwater |  |
| Depth (m)                                                                                    | Type | No. | Test Results | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Depth (Thickness) (m) | Level (m Datum)            | Legend                                                                                | Water Strike                                                                        | Backfill / Installation                                                               |             |  |
| 0.00 - 0.05                                                                                  | D    | 1   | < 0.1 ppm    |                 | MADE GROUND: dark brown, slightly silty, gravelly sand with low cobble content. With rare fragments of clinker (<20x60 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<70x80x85 mm) are subangular of brick.                                                                                                                                                                             | (0.60)                | 19.81                      |    |  |    |             |  |
| 0.00 - 0.10                                                                                  | ES   | 2   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 0.00 - 0.50                                                                                  | B    | 3   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 0.00                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 0.60 - 0.65                                                                                  | D    | 4   | 0.1 ppm      | 1               | MADE GROUND: dark grey, sandy, gravelly silt. With rare fragments of wood debris (<8x10x20 mm) (D1) (<1%), glass (<3x3 mm) (<1%) and clinker (<20x60 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete. With a slight organic odour.                                                                                                                                                                         | (0.70)                | 19.11                      |    |                                                                                     |    |             |  |
| 0.60 - 0.70                                                                                  | ES   | 5   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 0.60 - 1.10                                                                                  | B    | 6   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 0.60                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 1.30 - 1.35                                                                                  | D    | 7   | < 0.1 ppm    |                 | MADE GROUND: (firm and stiff), orangish brown and grey, slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. With a slight organic odour.                                                                                                                                                                                                                                  | (0.60)                | 18.51                      |    |                                                                                     |    |             |  |
| 1.30 - 1.40                                                                                  | ES   | 8   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 1.30 - 1.80                                                                                  | B    | 9   |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 1.30                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 1.50 - 1.95                                                                                  | SPT  |     | N = 2 (S)    | 2               | MADE GROUND: (firm and stiff), orangish brown and grey, slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. With a slight organic odour.                                                                                                                                                                                                                                  | 1.90                  | 17.71                      |    |                                                                                     |    |             |  |
| 1.90 - 1.95                                                                                  | D    | 10  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 1.90 - 2.00                                                                                  | ES   | 11  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 1.90 - 2.40                                                                                  | B    | 12  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 1.90                                                                                         | PID  |     | 0.1 ppm      |                 | MADE GROUND: (very soft), dark grey, sandy, gravelly, silty clay with low cobble content. With rare fragments of organic wood (<15x40x40 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<80x80x85 mm) are subangular of concrete. With a slight hydrocarbon odour.                                                                                                                             | (0.80)                |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 2.50 - 2.95                                                                                  | D    | 13  | N = 3 (S)    | 3               | MADE GROUND: (very soft), dark grey, sandy, gravelly, silty clay with low cobble content. With rare fragments of organic wood (<15x40x40 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<80x80x85 mm) are subangular of concrete. With a slight hydrocarbon odour.                                                                                                                             | 2.70                  |                            |    |                                                                                     |    |             |  |
| 2.50 - 2.95                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 2.70 - 2.75                                                                                  | D    | 14  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 2.70 - 2.80                                                                                  | ES   | 15  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 2.70 - 3.20                                                                                  | B    | 16  | 1.1 ppm      | 4               | MADE GROUND: (very soft and soft), greenish grey and black, slightly gravelly, sandy clay with low cobble content. With occasional fragments of wood debris (<10x50x70 mm) (D2) (2%) and metal (<20x80x100 mm) (2%). With rare fragments of glass (<3x5 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick, concrete and siliceous material. Cobbles (<20x80x100 mm) are subangular of brick. With a slight organic odour. | (3.50)                |                            |    |                                                                                     |    |             |  |
| 2.70                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 3.50                                                                                         | B    | 51  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 3.50 - 3.95                                                                                  | D    | 17  | N = 9 (S)    | 5               | At 3.50 m; with fragments of possible ACM (<30x50 mm).                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                            |   |                                                                                     |   |             |  |
| 3.50 - 3.95                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 3.70 - 3.80                                                                                  | ES   | 18  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 3.70 - 4.20                                                                                  | B    | 19  | 0.6 ppm      | 6               | Between 4.70 m and 5.75 m; greyish brown. Gravel is angular and subangular, fine to coarse of flint.                                                                                                                                                                                                                                                                                                                                                                 |                       |                            |  |                                                                                     |  |             |  |
| 3.70                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 4.50 - 4.95                                                                                  | D    | 20  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 4.50 - 4.95                                                                                  | SPT  |     | N = 12 (S)   | 7               | Firm and stiff, fissured, brownish grey CLAY. Fissures are randomly orientated, extremely closely spaced, undulating, rough. [LONDON CLAY FORMATION] [CLAY]                                                                                                                                                                                                                                                                                                          | 6.20                  | 14.21                      |  |                                                                                     |  |             |  |
| 4.70 - 4.80                                                                                  | ES   | 21  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 4.70 - 5.20                                                                                  | B    | 22  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 4.70                                                                                         | PID  |     | 0.2 ppm      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 5.70 - 5.75                                                                                  | D    | 23  | < 0.1 ppm    | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |  |                                                                                     |  |             |  |
| 5.70 - 5.80                                                                                  | ES   | 24  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 5.70                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 6.00 - 6.45                                                                                  | D    | 25  | N = 15 (S)   | 9               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |  |                                                                                     |  |             |  |
| 6.00 - 6.45                                                                                  | SPT  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 6.20 - 6.25                                                                                  | D    | 26  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 6.20 - 6.30                                                                                  | ES   | 27  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 6.20 - 6.70                                                                                  | B    | 28  | < 0.1 ppm    | 10              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |  |                                                                                     |  |             |  |
| 6.20                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 6.70 - 6.80                                                                                  | ES   | 29  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 6.70                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 7.20 - 7.25                                                                                  | D    | 30  | 31/450 mm    | 11              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |  |                                                                                     |  |             |  |
| 7.50 - 7.95                                                                                  | UT   | 31  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 7.95 - 8.00                                                                                  | D    | 32  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 8.50 - 9.00                                                                                  | B    | 33  |              | 12              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |  |                                                                                     |  |             |  |
| 8.95 - 9.00                                                                                  | D    | 34  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 9.00 - 9.45                                                                                  | D    | 35  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 9.00 - 9.45                                                                                  | SPT  |     | N = 23 (S)   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 9.70 - 9.80                                                                                  | ES   | 36  | < 0.1 ppm    | 13              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |  |                                                                                     |  |             |  |
| 9.70                                                                                         | PID  |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| 9.95 - 10.00                                                                                 | D    | 37  |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| Continued next page                                                                          |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| Notes                                                                                        |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'          |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                            |                                                                                       |                                                                                     |                                                                                       |             |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW             |      |     |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | Print Date                 |                                                                                       | 27/02/2020                                                                          |                                                                                       |             |  |

|                                                                                     |                 |          |                          |                |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
|-------------------------------------------------------------------------------------|-----------------|----------|--------------------------|----------------|-----------------------------------------------------------------------------------------------------|-----------------------|-----------------|--------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------|--|
|    | Contract Name   |          | HAL Airport Expansion    |                |                                                                                                     | Location ID           |                 |                                                                                      |              |                                                                                      |  |
|                                                                                     | Client          |          | Heathrow Airport Limited |                |                                                                                                     | HEP-BH-2520           |                 |                                                                                      |              |                                                                                      |  |
|                                                                                     | Fugro Reference |          | G190012U                 |                |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
|                                                                                     | Coordinates (m) |          | E502944.62 N176179.51    |                | Ground Elevation (m Datum)                                                                          |                       | 20.41           |                                                                                      | Sheet 2 of 2 |                                                                                      |  |
|                                                                                     | Hole Type       |          | Cable Percussion         |                |                                                                                                     | Status                |                 | Final                                                                                |              |                                                                                      |  |
| Sampling and In Situ Testing                                                        |                 |          |                          | Strata Details |                                                                                                     |                       |                 |                                                                                      |              | Groundwater                                                                          |  |
| Depth (m)                                                                           | Type            | No.      | Test Results             | Depth (m)      | Strata Descriptions                                                                                 | Depth (Thickness) (m) | Level (m Datum) | Legend                                                                               | Water Strike | Backfill / Installation                                                              |  |
| 10.95 - 11.00<br>11.00 - 11.45                                                      | D<br>UT         | 38<br>39 | 55/450 mm                | 11             | Between 11.45 m and 12.00 m; with frequent bioturbation burrows (<3x3 mm), infilled with grey silt. | (7.70)                |                 |  |              |  |  |
| 11.45 - 11.50                                                                       | D               | 40       |                          | 12             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| 11.95 - 12.00                                                                       | D               | 41       |                          | 13             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| 12.70 - 12.80<br>12.70                                                              | ES<br>PID       | 42       | < 0.1 ppm                | 14             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| 12.95 - 13.00<br>13.00 - 13.45                                                      | D<br>D<br>SPT   | 43<br>44 | N = 27 (S)               | 15             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| 13.95 - 14.00                                                                       | D               | 45       |                          | 16             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| 14.95 - 15.00<br>15.00 - 15.45                                                      | D<br>UT         | 46<br>47 | 78/450 mm                | 17             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| 15.45 - 15.50                                                                       | D               | 48       |                          | 18             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| 15.70 - 15.80<br>15.70                                                              | ES<br>PID       | 49       | < 0.1 ppm                | 19             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| 15.95 - 16.00                                                                       | D               | 50       |                          | 20             |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
|                                                                                     |                 |          |                          |                | End of Borehole at 16.20 m                                                                          | 16.20                 | 4.21            |                                                                                      |              |                                                                                      |  |
| Notes                                                                               |                 |          |                          |                |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |          |                          |                |                                                                                                     |                       |                 |                                                                                      |              |                                                                                      |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |          |                          |                |                                                                                                     | Print Date            |                 | 27/02/2020                                                                           |              |                                                                                      |  |

|                                                                                                                                                                                   |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|----------------------------------|-------------------------|--------------------|------------------------|------------------|----------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------|
|                                                                                                  | Contract Name   |                       | HAL Airport Expansion    |                          |                                  |                         | Location ID        |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                   | Client          |                       | Heathrow Airport Limited |                          |                                  |                         | <b>HEP-BH-2520</b> |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                   | Fugro Reference |                       | G190012U                 |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                   | Coordinates (m) |                       | E502944.62 N176179.51    |                          | Ground Elevation (m Datum) 20.41 |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                   | Hole Type       |                       | Cable Percussion         |                          |                                  |                         | Sheet 1 of 1       |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                   |                 |                       |                          |                          |                                  | Status                  |                    | Final                  |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Equipment                                                                                                                                                                         |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Depth From (m)                                                                                                                                                                    | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                        | Core Barrel             | Core Bit           | Drilling Crew          | Logged By        | Remarks                                      |                                               |                                                                               |              |                                                                                  |
| 0.00<br>1.20                                                                                                                                                                      | 1.20<br>16.20   | IP<br>CP              | 16/05/2019<br>16/05/2019 | 16/05/2019<br>20/05/2019 | Hand-dug<br>Dando 3000           |                         |                    | CT<br>CT               | OJ<br>OJ         |                                              |                                               |                                                                               |              |                                                                                  |
| Progress                                                                                                                                                                          |                 |                       |                          |                          | Rotary Details                   |                         |                    |                        |                  | Core Details                                 |                                               |                                                                               |              |                                                                                  |
| Date (dd/mm/yyyy)                                                                                                                                                                 | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                          | Depth From (m)          | Depth To (m)       | Flush Type             | Flush Return (%) | Flush Colour                                 | Run Time (hh:mm)                              | Depth From (m)                                                                | Depth To (m) | Diameter (mm)                                                                    |
| 16/05/2019                                                                                                                                                                        | 09:30:00        | 0.00                  |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| 16/05/2019                                                                                                                                                                        | 10:30:00        | 1.20                  |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| 16/05/2019                                                                                                                                                                        | 18:00:00        | 8.20                  | 6.30                     |                          | Dry                              |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| 20/05/2019                                                                                                                                                                        | 08:30:00        | 8.20                  | 6.30                     |                          | Dry                              |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| 20/05/2019                                                                                                                                                                        | 09:00:00        | 16.20                 | 9.00                     |                          | Dry                              |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Hole and Casing                                                                                                                                                                   |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Depth To (m)                                                                                                                                                                      |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                                  | Casing Diameter (mm)    |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| 8.20<br>16.20                                                                                                                                                                     |                 | 200<br>150            |                          | 6.30<br>9.00             |                                  | 200<br>150              |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Chiselling / Slow Progress                                                                                                                                                        |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Depth From (m)                                                                                                                                                                    |                 | Depth To (m)          |                          | Duration (hh:mm)         |                                  | Tool / Remark           |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                   |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Water Strike                                                                                                                                                                      |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Strike At (m)                                                                                                                                                                     |                 | Rise To (m)           |                          | Time Elapsed (mins)      |                                  | Casing Depth (m)        |                    | Depth Sealed (m)       |                  | Depth From (m)                               |                                               | Depth To (m)                                                                  |              |                                                                                  |
| 1.60                                                                                                                                                                              |                 | 0.80                  |                          | 20                       |                                  | 1.50                    |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Water Strike Remarks                                                                                                                                                              |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| General Remarks                                                                                                                                                                   |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Installation                                                                                                                                                                      |                 |                       |                          |                          | Pipe                             |                         |                    |                        |                  | Backfill                                     |                                               |                                                                               |              |                                                                                  |
| Type                                                                                                                                                                              | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                               | Top Depth (m)           | Base Depth (m)     | Diameter (mm)          | Type             | Depth From (m)                               | Depth To (m)                                  | Backfill Material                                                             |              | Date                                                                             |
| SP                                                                                                                                                                                | 1               | 1.20                  | 5.20                     | 20/05/2019               | Pipe1<br>Pipe1                   | 0.22<br>1.40            | 1.40<br>5.20       | 50<br>50               | Plain<br>Slotted | 0.00<br>0.05<br>0.20<br>1.20<br>5.20<br>6.20 | 0.05<br>0.20<br>1.20<br>5.20<br>6.20<br>16.20 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite<br>Grout |              | 20/05/2019<br>20/05/2019<br>20/05/2019<br>20/05/2019<br>20/05/2019<br>20/05/2019 |
| Notes                                                                                                                                                                             |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                                               |                 |                       |                          |                          |                                  |                         |                    |                        |                  |                                              |                                               |                                                                               |              |                                                                                  |
| Checked By                                                                                                                                                                        |                 | ROR                   |                          | Elevation Datum          |                                  | Local Datum Not Defined |                    | Grid Coordinate System |                  | OSGB                                         |                                               |                                                                               |              |                                                                                  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                                                        |                 |                       |                          |                          |                                  |                         |                    |                        |                  | Print Date                                   |                                               | 27/02/2020                                                                    |              |                                                                                  |



[illegible]

|                                                                                                        |                                              |                      |                                      |                          |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       |                                                                                       |                |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------|--------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|
|                       | Contract Name                                |                      |                                      | HAL Airport Expansion    |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                | Location ID            |                                                                                       |                                                                                       |                                                                                       |                |
|                                                                                                        | Client                                       |                      |                                      | Heathrow Airport Limited |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                | HEP-BH-2521            |                                                                                       |                                                                                       |                                                                                       |                |
|                                                                                                        | Fugro Reference                              |                      |                                      | G190012U                 |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       |                                                                                       |                |
|                                                                                                        | Coordinates (m)                              |                      |                                      | E503007.93 N176190.97    | Ground Elevation (m Datum)                                                                                                                                                                                                                                                                                                                                      | 20.23                                                                                                                                                          | Sheet 1 of 1           |                                                                                       |                                                                                       |                                                                                       |                |
|                                                                                                        | Hole Type                                    |                      |                                      | Cable Percussion         |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                | Status                 |                                                                                       | Final                                                                                 |                                                                                       |                |
| Sampling and In Situ Testing                                                                           |                                              |                      |                                      | Strata Details           |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       | Groundwater                                                                           |                |
| Depth (m)                                                                                              | Type                                         | No.                  | Test Results                         | Depth (m)                | Strata Descriptions                                                                                                                                                                                                                                                                                                                                             | Depth (Thickness) (m)                                                                                                                                          | Level (m Datum)        | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                               |                |
| 0.00 - 0.05<br>0.00 - 0.10<br>0.00 - 0.50<br>0.00                                                      | D<br>ES<br>LB<br>PID                         | 1<br>2<br>3          | < 0.1 ppm                            |                          | MADE GROUND: brown, gravelly sand with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<75x75x80 mm) are subangular of concrete.<br>[MADE GROUND] [SAND]                                                                                                                    | (0.90)                                                                                                                                                         |                        |    |    |    |                |
| 0.90 - 0.95<br>0.90 - 1.00<br>0.90 - 1.20<br>0.90                                                      | D<br>ES<br>LB<br>PID                         | 4<br>5<br>6          |                                      | 1                        | MADE GROUND: brown, slightly sandy, gravelly, clayey silt with low cobble content. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and rare concrete. Cobbles (<80x100x105 mm) are subangular of brick and concrete.<br>[MADE GROUND] [SILT]                                                                           | 0.90<br>(0.40)                                                                                                                                                 | 19.33                  |                                                                                       |                                                                                       |                                                                                       |                |
| 1.30 - 1.35<br>1.30 - 1.40<br>1.30 - 1.50<br>1.30                                                      | D<br>ES<br>B<br>PID                          | 7<br>8<br>9          |                                      | < 0.1 ppm                |                                                                                                                                                                                                                                                                                                                                                                 | MADE GROUND: yellowish brown, silty, gravelly sand. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint.<br>[MADE GROUND] [SAND] | 1.30<br>(0.20)<br>1.50 |                                                                                       |                                                                                       |                                                                                       | 18.93<br>18.73 |
| 1.50 - 1.55<br>1.50 - 1.60<br>1.50 - 2.00<br>1.50 - 1.95<br>1.50                                       | D<br>ES<br>B<br>SPT<br>PID                   | 10<br>11<br>12       | < 0.1 ppm                            | 2                        | Loose becoming dense, dark grey and brown, sandy GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL]<br>Between 2.50 m and 2.95 m; medium dense.                                                                                                                                 |                                                                                                                                                                |                        |    |    |    |                |
| 2.50 - 2.55<br>2.50 - 2.60<br>2.50 - 3.00<br>2.50 - 2.95<br>2.50                                       | D<br>ES<br>B<br>SPT<br>PID                   | 13<br>14<br>15       | N = 6 (C)<br>< 0.1 ppm               | 3                        |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       |                                                                                       |                |
| 3.50 - 3.55<br>3.50 - 3.60<br>3.50 - 4.00<br>3.50 - 3.95<br>3.50                                       | D<br>ES<br>B<br>SPT<br>PID                   | 16<br>17<br>18       | N = 33 (C)<br>< 0.1 ppm              | 4                        | Between 3.50 m and 3.95 m; dense.<br>Between 3.50 m and 4.00 m; with high cobble content. Cobbles (<80x105x110 mm) are subangular of flint.                                                                                                                                                                                                                     | (4.40)                                                                                                                                                         |                        |                                                                                       |                                                                                       |                                                                                       |                |
| 4.50 - 4.55<br>4.50 - 4.60<br>4.50 - 5.00<br>4.50                                                      | D<br>ES<br>B<br>PID                          | 19<br>20<br>21       | < 0.1 ppm                            | 5                        |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |   |   |   |                |
| 5.50 - 5.55<br>5.50 - 5.60<br>5.50 - 5.90<br>5.50                                                      | D<br>ES<br>B<br>PID                          | 22<br>23<br>24       | < 0.1 ppm                            | 6                        | Firm and stiff, fissured, brownish grey, slightly sandy CLAY. With rare bioturbation burrows (<3x5 mm), infilled with grey silt. Sand is fine to coarse. Fissures are randomly orientated, extremely closely spaced, undulating, rough.<br>[LONDON CLAY FORMATION] [CLAY]<br>Between 6.00 m and 6.50 m; slightly sandy, slightly gravelly silt. Gravel is fine. | 5.90                                                                                                                                                           | 14.33                  |                                                                                       |                                                                                       |                                                                                       |                |
| 6.00 - 6.05<br>6.00 - 6.10<br>6.00 - 6.45<br>6.00 - 6.50<br>6.00 - 6.45<br>6.00<br>6.50 - 6.60<br>6.50 | D<br>ES<br>D<br>B<br>SPT<br>PID<br>ES<br>PID | 25<br>26<br>27<br>28 | N = 16 (S)<br>< 0.1 ppm<br>< 0.1 ppm | 7                        |                                                                                                                                                                                                                                                                                                                                                                 | (2.10)                                                                                                                                                         |                        |                                                                                       |                                                                                       |                                                                                       |                |
| 7.00 - 7.05                                                                                            | D                                            | 30                   |                                      |                          |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |  |  |  |                |
| 7.50 - 7.95                                                                                            | UT                                           | 31                   | 64/450 mm                            |                          |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       |                                                                                       |                |
| 7.95 - 8.00                                                                                            | D                                            | 32                   |                                      | 8                        | End of Borehole at 8.00 m                                                                                                                                                                                                                                                                                                                                       | 8.00                                                                                                                                                           | 12.23                  |                                                                                       |                                                                                       |                                                                                       |                |
|                                                                                                        |                                              |                      |                                      | 9                        |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       |                                                                                       |                |
| Notes                                                                                                  |                                              |                      |                                      |                          |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       |                                                                                       |                |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                    |                                              |                      |                                      |                          |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       |                                                                                       |                |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Confia Fugro Rev5/24/01/2020/TS+AW                       |                                              |                      |                                      |                          |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        |                                                                                       |                                                                                       |                                                                                       |                |
| Print Date                                                                                             |                                              |                      |                                      |                          |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                |                        | 27/02/2020                                                                            |                                                                                       |                                                                                       |                |

|                                                                                     |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|-------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|---------------------------------------|--------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name   |                       | HAL Airport Expansion    |                          |                                  |                                                                                                                                                                                   |                | Location ID            |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Client          |                       | Heathrow Airport Limited |                          |                                  |                                                                                                                                                                                   |                | <b>HEP-BH-2521</b>     |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Fugro Reference |                       | G190012U                 |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Coordinates (m) |                       | E503007.93 N176190.97    |                          | Ground Elevation (m Datum) 20.23 |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     | Hole Type       |                       | Cable Percussion         |                          |                                  |                                                                                                                                                                                   |                | Sheet 1 of 1           |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
|                                                                                     |                 |                       |                          |                          |                                  |                                                                                                                                                                                   | Status         |                        | Final            |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Equipment                                                                           |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                        | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By        | Remarks                               |                                      |                                                                           |                                                                    |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>8.00    | IP<br>CP              | 21/05/2019<br>21/05/2019 | 21/05/2019<br>22/05/2019 | Hand-dug<br>Dando 3000           |                                                                                                                                                                                   |                | CT<br>CT               | OJ<br>OJ         |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Progress                                                                            |                 |                       |                          |                          |                                  | Rotary Details                                                                                                                                                                    |                |                        |                  | Core Details                          |                                      |                                                                           |                                                                    |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                          | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%) | Flush Colour                          | Run Time (hh:mm)                     | Depth From (m)                                                            | Depth To (m)                                                       | Diameter (mm) |                      |  |
| 21/05/2019                                                                          | 08:00:00        | 0.00                  |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| 21/05/2019                                                                          | 11:00:00        | 1.20                  |                          |                          | Dry                              |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| 21/05/2019                                                                          | 18:00:00        | 6.00                  | 5.90                     |                          | Dry                              |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| 22/05/2019                                                                          | 09:00:00        | 6.00                  | 5.90                     |                          | Dry                              |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| 22/05/2019                                                                          | 18:00:00        | 8.00                  | 6.00                     |                          | Dry                              |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Hole and Casing                                                                     |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth To (m)                                                                        |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | Casing Diameter (mm) |  |
| 8.00                                                                                |                 | 200                   |                          | 6.00                     |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | 200                  |  |
| Chiselling / Slow Progress                                                          |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Depth From (m)                                                                      |                 | Depth To (m)          |                          | Duration (hh:mm)         |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | Tool / Remark        |  |
|                                                                                     |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Water Strike                                                                        |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | Water Added          |  |
| Strike At (m)                                                                       | Rise To (m)     | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)                   |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | Depth To (m)         |  |
| 1.60                                                                                |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Water Strike Remarks                                                                |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               | General Remarks      |  |
| Groundwater not monitored.                                                          |                 |                       |                          |                          |                                  | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Installation                                                                        |                 |                       |                          |                          | Pipe                             |                                                                                                                                                                                   |                |                        |                  | Backfill                              |                                      |                                                                           |                                                                    |               |                      |  |
| Type                                                                                | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                               | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type             | Depth From (m)                        | Depth To (m)                         | Backfill Material                                                         | Date                                                               |               |                      |  |
| SP                                                                                  | 1               | 1.50                  | 5.90                     | 22/05/2019               | Pipe1<br>Pipe1                   | 0.00<br>1.70                                                                                                                                                                      | 1.70<br>5.90   | 50<br>50               | Plain<br>Slotted | -0.41<br>0.00<br>0.20<br>1.50<br>5.90 | 0.00<br>0.20<br>1.50<br>5.90<br>8.00 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 22/05/2019<br>22/05/2019<br>22/05/2019<br>22/05/2019<br>22/05/2019 |               |                      |  |
| Notes                                                                               |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  |                                       |                                      |                                                                           |                                                                    |               |                      |  |
| Checked By                                                                          |                 | ROR                   |                          | Elevation Datum          |                                  | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                  | OSGB                                  |                                      |                                                                           |                                                                    |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                 |                       |                          |                          |                                  |                                                                                                                                                                                   |                |                        |                  | Print Date                            |                                      | 27/02/2020                                                                |                                                                    |               |                      |  |

[illegible]

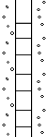
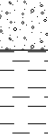
|                                                                                              |      |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
|----------------------------------------------------------------------------------------------|------|-----|-------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|--|-------|
| <div></div> |      |     |                         | Contract Name   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | HAL Airport Expansion    |                                                                                       |                                                                                       | Location ID<br><b>HEP-BH-2522</b>                                                     |             |  |       |
|                                                                                              |      |     |                         | Client          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Heathrow Airport Limited |                                                                                       |                                                                                       |                                                                                       |             |  |       |
|                                                                                              |      |     |                         | Fugro Reference |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | G190012U                 |                                                                                       |                                                                                       | Sheet 1 of 2                                                                          |             |  |       |
|                                                                                              |      |     |                         | Coordinates (m) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E502805.83 N176144.67 |                          | Ground Elevation (m Datum)                                                            |                                                                                       |                                                                                       |             |  | 21.16 |
|                                                                                              |      |     |                         | Hole Type       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cable Percussion      |                          | Status                                                                                |                                                                                       |                                                                                       |             |  | Final |
| Sampling and In Situ Testing                                                                 |      |     |                         | Strata Details  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       | Groundwater |  |       |
| Depth (m)                                                                                    | Type | No. | Test Results            | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Depth (Thickness) (m) | Level (m Datum)          | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                               |             |  |       |
| 0.15 - 0.25                                                                                  | D    | 3   | < 0.1 ppm               | 1               | MADE GROUND: brown, slightly sandy, slightly gravelly clay with low cobble content. With occasional fragments of plastic (<2x50x100 mm) (3%) and wood debris (<5x40x40 mm) (D1) (1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Cobbles (<100x100x200 mm) are subangular of concrete.<br>[MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                               | (0.40)                | 20.76                    |    |    |    |             |  |       |
| 0.15 - 0.25                                                                                  | ES   | 2   |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.15 - 0.30                                                                                  | LB   | 1   |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.15                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.50 - 0.60                                                                                  | D    | 6   |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.50 - 0.60                                                                                  | ES   | 5   | < 0.1 ppm               | 1               | MADE GROUND: black, slightly sandy, slightly gravelly clay with low cobble content (54%). With frequent fragments of plastic (<3x250x250 mm) (15%), wood debris (<80x80x150 mm) (D1-D2) (15%) and glass (<3x40x150 mm) (10%). With some fragments of metal (<3x50x100 mm) (5%). With a fragment of possible ACM (<3x40x50 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and concrete. Cobbles (<100x100x150 mm) are subangular of brick and concrete.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]<br>At 0.75 m; with a fragment of wood debris (150x150x400 mm) (D1).<br>At 0.90 m; with a fragment of spherical glass (200x200 mm).<br>Between 0.90 m and 1.00 m; with a fragment of possible asbestos (<3x40x50 mm). | (2.00)                | 18.76                    |    |    |    |             |  |       |
| 0.50 - 0.70                                                                                  | LB   | 4   |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.50                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.90 - 1.00                                                                                  | B    | 10  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.90 - 1.00                                                                                  | D    | 9   |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.90 - 1.00                                                                                  | ES   | 8   | < 0.1 ppm               | 2               | MADE GROUND: black and grey, slightly sandy, gravelly clay (83%). With occasional fragments of metal (<10x10x170 mm) (5%), glass (<3x30x40 mm) (5%), wood debris (<30x70x120 mm) (D1-D2) (5%) and plastic (<3x100x100 mm) (2%). Sand is fine to coarse. Gravel is angular to subrounded, fine and medium of flint, brick and concrete.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]                                                                                                                                                                                                                                                                                                                                                                                              | (2.40)                | 16.96                    |    |    |    |             |  |       |
| 0.90 - 1.20                                                                                  | LB   | 7   |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 0.90                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 1.50 - 1.60                                                                                  | ES   | 13  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 1.50 - 1.95                                                                                  | D    | 11  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 1.50 - 2.00                                                                                  | LB   | 12  | N = 13 (C)<br>< 0.1 ppm | 2               | MADE GROUND: (soft), black, slightly gravelly, sandy clay. With pockets (<100x150 mm) of grey clay. With occasional fragments of plastic (<2x70x100 mm) (2%), wood debris (<20x50x70 mm) (D1-D2) (2%) and metal (<1x50x190 mm) (2%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint, brick and rare concrete.<br>[MADE GROUND] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                                 | (1.80)                | 15.76                    |    |    |    |             |  |       |
| 1.50 - 1.95                                                                                  | SPT  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 1.50                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 2.50 - 2.60                                                                                  | D    | 16  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 2.50 - 2.60                                                                                  | ES   | 15  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 2.50 - 3.00                                                                                  | D    | 14  | N = 15 (C)<br>< 0.1 ppm | 3               | Grey, sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint. Cobbles (<70x100x100 mm) are subangular of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (1.20)                | 15.16                    |   |   |   |             |  |       |
| 2.50 - 2.95                                                                                  | SPT  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 2.50                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 3.50 - 3.60                                                                                  | D    | 19  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 3.50 - 3.60                                                                                  | ES   | 18  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 3.50 - 4.00                                                                                  | LB   | 17  | N = 11 (C)<br>< 0.1 ppm | 4               | Firm and stiff, fissured, grey, slightly sandy CLAY. With bioturbation burrows (<1x3 mm) and partings (<1 mm) infilled with light grey silt, pockets (<30x40 mm) of black, fine sand and pyrite nodules (<10x20x70 mm). Sand is fine to coarse. Fissures are randomly orientated, very closely and closely spaced, planar, smooth and polished.<br>[LONDON CLAY FORMATION] [CLAY]<br>Between 6.00 m and 6.50 m; slightly gravelly. Gravel is fine.                                                                                                                                                                                                                                                                                                                          | (1.20)                | 13.16                    |  |  |  |             |  |       |
| 3.50 - 3.95                                                                                  | SPT  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 3.50                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 4.50 - 4.60                                                                                  | D    | 22  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 4.50 - 4.60                                                                                  | ES   | 21  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 4.50 - 5.00                                                                                  | LB   | 20  | < 0.1 ppm               | 5               | Stiff, fissured, grey CLAY. With bioturbation burrows (<1x3 mm) and partings (<1 mm) infilled with light grey silt, pockets (<30x40 mm) of black, fine sand and pyrite nodules (<10x20x70 mm). Fissures are randomly orientated, very closely and closely spaced, planar, smooth and polished.<br>[LONDON CLAY FORMATION] [CLAY]                                                                                                                                                                                                                                                                                                                                                                                                                                            | (3.00)                |                          |  |  |  |             |  |       |
| 4.50                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 5.50 - 5.60                                                                                  | D    | 25  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 5.50 - 5.60                                                                                  | ES   | 24  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 5.50 - 5.80                                                                                  | LB   | 23  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 5.50                                                                                         | PID  |     | < 0.1 ppm               | 6               | Continued next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (0.60)                |                          |  |  |  |             |  |       |
| 6.00 - 6.10                                                                                  | D    | 28  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 6.00 - 6.10                                                                                  | ES   | 27  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 6.00 - 6.50                                                                                  | B    | 26  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 6.00                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 6.50 - 6.95                                                                                  | D    | 29  | N = 19 (S)              | 7               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (2.00)                |                          |  |  |  |             |  |       |
| 6.50 - 6.95                                                                                  | SPT  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 7.50 - 7.60                                                                                  | B    | 30  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 7.50 - 7.60                                                                                  | D    | 31  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 8.00 - 8.45                                                                                  | UT   | 32  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 8.45 - 8.50                                                                                  | D    | 33  | < 0.1 ppm               | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (3.00)                |                          |  |  |  |             |  |       |
| 8.50 - 8.60                                                                                  | ES   | 35  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 8.50 - 9.00                                                                                  | B    | 34  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 8.50                                                                                         | PID  |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 9.50 - 9.95                                                                                  | D    | 36  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 9.50 - 9.95                                                                                  | SPT  |     | N = 19 (S)              | 9               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (3.00)                |                          |  |  |  |             |  |       |
| 10.00 - 10.10                                                                                | ES   | 38  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| 10.00 - 10.50                                                                                | B    | 37  |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
|                                                                                              |      |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
|                                                                                              |      |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| Notes                                                                                        |      |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'          |      |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                          |                                                                                       |                                                                                       |                                                                                       |             |  |       |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW             |      |     |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Print Date               | 27/02/2020                                                                            |                                                                                       |                                                                                       |             |  |       |

|                                                                                     |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
|-------------------------------------------------------------------------------------|-----------------|-----|--------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------|-------------------------|--|
|    | Contract Name   |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                                               | Location ID           |                 |            |              |                         |  |
|                                                                                     | Client          |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                                               | HEP-BH-2522           |                 |            |              |                         |  |
|                                                                                     | Fugro Reference |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
|                                                                                     | Coordinates (m) |     | E502805.83 N176144.67    | Ground Elevation (m Datum) | 21.16                                                                                                                                                                                                                                                                                                                                                                         | Sheet 2 of 2          |                 |            |              |                         |  |
|                                                                                     | Hole Type       |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                                               | Status                | Final           |            |              |                         |  |
| Sampling and In Situ Testing                                                        |                 |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            | Groundwater  |                         |  |
| Depth (m)                                                                           | Type            | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                           | Depth (Thickness) (m) | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |  |
| 10.00                                                                               | PID             |     | < 0.1 ppm                |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 11.00 - 11.45                                                                       | UT              | 39  | 55/450 mm                | 11                         | Very stiff, fissured, grey, slightly sandy CLAY. With bioturbation burrows (<1x3 mm) and partings (<1 mm) infilled with light grey silt, pockets (<10x20 mm) of black, fine sand and pyrite nodules (<10x30x50 mm). Sand is fine to coarse. Fissures are randomly orientated, very closely and closely spaced, planar, smooth and polished.<br>[LONDON CLAY FORMATION] [CLAY] | 11.00                 | 10.16           |            |              |                         |  |
| 11.45 - 11.50                                                                       | D               | 40  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 11.50 - 11.60                                                                       | ES              | 42  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 11.60 - 11.70                                                                       | B               | 41  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 11.70 - 11.80                                                                       | PID             |     | < 0.1 ppm                |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 13.00 - 13.45                                                                       | D               | 43  |                          | 13                         |                                                                                                                                                                                                                                                                                                                                                                               | (5.00)                |                 |            |              |                         |  |
| 13.00 - 13.45                                                                       | SPT             |     | N = 24 (S)               |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 14.00 - 14.50                                                                       | B               | 44  |                          | 14                         |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 14.50 - 14.60                                                                       | D               | 45  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 15.00 - 15.45                                                                       | UT              | 46  | 60/250 mm                | 15                         |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 15.45 - 15.50                                                                       | D               | 47  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| 15.50 - 16.00                                                                       | B               | 48  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
|                                                                                     |                 |     |                          | 16                         | End of Borehole at 16.00 m                                                                                                                                                                                                                                                                                                                                                    | 16.00                 | 5.16            |            |              |                         |  |
|                                                                                     |                 |     |                          | 17                         |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
|                                                                                     |                 |     |                          | 18                         |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
|                                                                                     |                 |     |                          | 19                         |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| Notes                                                                               |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               |                       |                 |            |              |                         |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                               | Print Date            |                 | 27/02/2020 |              |                         |  |

|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|----------------------------|-------------------------|----------------|------------------------|------------------|---------------------------------------|---------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|
|                                                                                                                                                                        | Contract Name   |                       | HAL Airport Expansion    |                          |                            |                         |                | Location ID            |                  |                                       |                                       |                                                                           |                                                                    |               |
|                                                                                                                                                                                                                                                         | Client          |                       | Heathrow Airport Limited |                          |                            |                         |                | <b>HEP-BH-2522</b>     |                  |                                       |                                       |                                                                           |                                                                    |               |
|                                                                                                                                                                                                                                                         | Fugro Reference |                       | G190012U                 |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
|                                                                                                                                                                                                                                                         | Coordinates (m) |                       | E502805.83 N176144.67    |                          | Ground Elevation (m Datum) |                         | 21.16          |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
|                                                                                                                                                                                                                                                         | Hole Type       |                       | Cable Percussion         |                          |                            |                         |                | Sheet 1 of 1           |                  |                                       |                                       |                                                                           |                                                                    |               |
|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         | Status         |                        | Final            |                                       |                                       |                                                                           |                                                                    |               |
| Equipment                                                                                                                                                                                                                                               |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Depth From (m)                                                                                                                                                                                                                                          | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel             | Core Bit       | Drilling Crew          | Logged By        | Remarks                               |                                       |                                                                           |                                                                    |               |
| 0.00<br>1.20                                                                                                                                                                                                                                            | 1.20<br>16.00   | IP<br>CP              | 13/06/2019<br>13/06/2019 | 13/06/2019<br>18/06/2019 | Hand-dug<br>Dando 3000     |                         |                | JT<br>JT               | RS<br>RS         |                                       |                                       |                                                                           |                                                                    |               |
| Progress                                                                                                                                                                                                                                                |                 |                       |                          |                          |                            | Rotary Details          |                |                        |                  | Core Details                          |                                       |                                                                           |                                                                    |               |
| Date (dd/mm/yyyy)                                                                                                                                                                                                                                       | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)          | Depth To (m)   | Flush Type             | Flush Return (%) | Flush Colour                          | Run Time (hh:mm)                      | Depth From (m)                                                            | Depth To (m)                                                       | Diameter (mm) |
| 13/06/2019                                                                                                                                                                                                                                              | 10:45:00        | 0.00                  |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| 13/06/2019                                                                                                                                                                                                                                              | 12:00:00        | 1.20                  |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| 13/06/2019                                                                                                                                                                                                                                              | 18:00:00        | 8.00                  | 6.00                     | Dry                      |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| 18/06/2019                                                                                                                                                                                                                                              | 08:30:00        | 8.00                  | 6.00                     | 2.00                     |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| 18/06/2019                                                                                                                                                                                                                                              | 18:00:00        | 16.00                 | 9.00                     | Dry                      |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Hole and Casing                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Depth To (m)                                                                                                                                                                                                                                            |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                            | Casing Diameter (mm)    |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| 8.00<br>16.00                                                                                                                                                                                                                                           |                 | 250<br>200            |                          | 6.00<br>9.00             |                            | 250<br>200              |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Chiselling / Slow Progress                                                                                                                                                                                                                              |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Depth From (m)                                                                                                                                                                                                                                          |                 | Depth To (m)          |                          | Duration (hh:mm)         |                            | Tool / Remark           |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Water Strike                                                                                                                                                                                                                                            |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Strike At (m)                                                                                                                                                                                                                                           |                 | Rise To (m)           |                          | Time Elapsed (mins)      |                            | Casing Depth (m)        |                | Depth Sealed (m)       |                  | Depth From (m)                        |                                       | Depth To (m)                                                              |                                                                    |               |
| 5.40                                                                                                                                                                                                                                                    |                 | 3.00                  |                          | 20                       |                            | 5.00                    |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Water Strike Remarks                                                                                                                                                                                                                                    |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| General Remarks                                                                                                                                                                                                                                         |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. Bentonite seal placed between 6.00 m and 8.00 m as instructed by IDT. |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Installation                                                                                                                                                                                                                                            |                 |                       |                          |                          | Pipe                       |                         |                |                        |                  | Backfill                              |                                       |                                                                           |                                                                    |               |
| Type                                                                                                                                                                                                                                                    | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)           | Base Depth (m) | Diameter (mm)          | Type             | Depth From (m)                        | Depth To (m)                          | Backfill Material                                                         | Date                                                               |               |
| SP                                                                                                                                                                                                                                                      | 1               | 1.00                  | 4.90                     | 18/06/2019               | Pipe1<br>Pipe1             | 0.00<br>1.20            | 1.20<br>4.90   | 50<br>50               | Plain<br>Slotted | -0.34<br>0.00<br>0.20<br>1.00<br>4.90 | 0.00<br>0.20<br>1.00<br>4.90<br>16.00 | Upstanding Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 18/06/2019<br>18/06/2019<br>18/06/2019<br>18/06/2019<br>18/06/2019 |               |
| Notes                                                                                                                                                                                                                                                   |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                                                                                                                     |                 |                       |                          |                          |                            |                         |                |                        |                  |                                       |                                       |                                                                           |                                                                    |               |
| Checked By                                                                                                                                                                                                                                              |                 | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined |                | Grid Coordinate System |                  | OSGB                                  |                                       |                                                                           |                                                                    |               |
| Template: FGSL/HBSL/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                                                                                                                              |                 |                       |                          |                          |                            |                         |                |                        |                  | Print Date                            |                                       | 27/02/2020                                                                |                                                                    |               |

[illegible]



|                                                                                                        |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------|-------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|--|
| <div></div>           |                                              |                |                         | Contract Name   |                                                                                                                                                                                                                                                                                                                                                                                                                |                       | HAL Airport Expansion      |                                                                                       |                                                                                       | Location ID                                                                           |             |  |
|                                                                                                        |                                              |                |                         | Client          |                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Heathrow Airport Limited   |                                                                                       |                                                                                       | HEP-BH-2523                                                                           |             |  |
|                                                                                                        |                                              |                |                         | Fugro Reference |                                                                                                                                                                                                                                                                                                                                                                                                                |                       | G190012U                   |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                                        |                                              |                |                         | Coordinates (m) |                                                                                                                                                                                                                                                                                                                                                                                                                | E502861.03 N176031.03 | Ground Elevation (m Datum) |                                                                                       | 20.39                                                                                 |                                                                                       |             |  |
|                                                                                                        |                                              |                |                         | Hole Type       |                                                                                                                                                                                                                                                                                                                                                                                                                | Cable Percussion      |                            |                                                                                       | Status                                                                                |                                                                                       | Final       |  |
| Sampling and In Situ Testing                                                                           |                                              |                |                         | Strata Details  |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       | Groundwater |  |
| Depth (m)                                                                                              | Type                                         | No.            | Test Results            | Depth (m)       | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                            | Depth (Thickness) (m) | Level (m Datum)            | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                               |             |  |
| 0.00 - 0.05<br>0.00 - 0.10<br>0.00 - 0.50<br>0.00                                                      | D<br>ES<br>LB<br>PID                         | 1<br>2<br>3    | < 0.1 ppm               | 1               | MADE GROUND: greyish brown, sandy gravel with high cobble content. With rare fragments of ceramic tile (<8x10 mm) (<1%), glass (<3x3 mm) (<1%), possible asbestos tile (<5x5 mm) (<1%) and plastic bag (<10x15 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete. Cobbles (<70x80x110 mm) are subangular of brick and concrete. [MADE GROUND] [GRAVEL] | (1.80)                |                            |    |    |    |             |  |
| 1.00 - 1.05<br>1.00 - 1.10<br>1.00 - 1.50<br>1.00                                                      | D<br>ES<br>LB<br>PID                         | 4<br>5<br>6    |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.50 - 2.00<br>1.50 - 1.95                                                                             | LB<br>SPT                                    | 7              |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.80 - 1.85<br>1.80 - 1.90<br>1.80                                                                     | D<br>ES<br>PID                               | 8<br>9         | < 0.1 ppm               | 2               | MADE GROUND: (very soft and soft), grey and brown, slightly sandy, gravelly clay with low cobble content. With rare fragments of clinker (<60 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete. Cobbles (<87x105x110 mm) are subangular of brick. [MADE GROUND] [CLAY]                                                                                | 1.80<br><br>(0.70)    | 18.59                      |    |    |    |             |  |
| 2.50 - 2.55<br>2.50 - 2.60<br>2.50 - 3.00<br>2.50 - 2.95<br>2.50                                       | D<br>ES<br>B<br>SPT<br>PID                   | 10<br>11<br>12 |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                                        |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       | 3           |  |
| 3.50 - 3.55<br>3.50 - 3.60<br>3.50 - 4.00<br>3.50 - 3.95<br>3.50                                       | D<br>ES<br>B<br>SPT<br>PID                   | 13<br>14<br>15 | N = 25 (C)<br>< 0.1 ppm | 4               | Between 3.50 m and 6.00 m; medium dense, brownish grey and very sandy.                                                                                                                                                                                                                                                                                                                                         | (3.50)                |                            |    |    |    |             |  |
| 4.50 - 4.55<br>4.50 - 4.60<br>4.50 - 5.00<br>4.50 - 4.95<br>4.50                                       | D<br>ES<br>B<br>SPT<br>PID                   | 16<br>17<br>18 |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                                        |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       | 5           |  |
| 5.50 - 5.55<br>5.50 - 5.60<br>5.50                                                                     | D<br>ES<br>PID                               | 19<br>20       | < 0.1 ppm               | 6               | Firm becoming stiff, brownish grey, locally mottled orange and brown, slightly sandy CLAY. With occasional subangular fragments (<8x10 mm) of claystone. Sand is fine to coarse. [LONDON CLAY FORMATION] [CLAY]<br>Between 6.00 m and 6.50 m; with occasional bioturbation burrows (3x3 mm), infilled with silt.                                                                                               | 6.00                  | 14.39                      |   |   |   |             |  |
| 6.00 - 6.05<br>6.00 - 6.10<br>6.00 - 6.45<br>6.00 - 6.50<br>6.00 - 6.45<br>6.00<br>6.50 - 6.60<br>6.50 | D<br>ES<br>D<br>B<br>SPT<br>PID<br>ES<br>PID | 22<br>23<br>24 |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                                        |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       | 7           |  |
| 7.00 - 7.05                                                                                            | D                                            | 26             | < 0.1 ppm               | 7               |                                                                                                                                                                                                                                                                                                                                                                                                                | (2.00)                |                            |  |  |  |             |  |
| 7.50 - 7.95                                                                                            | UT                                           | 27             |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                                        |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       | 8           |  |
| 7.95 - 8.00<br>8.00 - 8.05                                                                             | D<br>D                                       | 28<br>29       | N = 8 (S)<br>< 0.1 ppm  | 8               | Stiff and very stiff, fissured, brownish grey CLAY. With rare bioturbation burrows (<3x3 mm), infilled with silt. Fissures are randomly orientated, extremely closely spaced, mainly undulating, rarely planar, rough. [LONDON CLAY FORMATION] [CLAY]                                                                                                                                                          | 8.00                  | 12.39                      |  |  |  |             |  |
| 9.00 - 9.05<br>9.00 - 9.45                                                                             | D<br>D                                       | 30<br>31       |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                                        |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       | 9           |  |
| 9.50 - 9.60<br>9.50 - 9.95<br>9.50                                                                     | ES<br>SPT<br>PID                             | 32             | N = 17 (S)<br>< 0.1 ppm |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |  |  |  |             |  |
| 10.00 - 10.05                                                                                          | D                                            | 33             |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| Continued next page                                                                                    |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| Notes                                                                                                  |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                    |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW                       |                                              |                |                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Print Date                 |                                                                                       | 27/02/2020                                                                            |                                                                                       |             |  |

|                                                                                     |                 |                |                          |                            |                                                                                                                                                       |                       |                 |            |              |                         |
|-------------------------------------------------------------------------------------|-----------------|----------------|--------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------|-------------------------|
|    | Contract Name   |                | HAL Airport Expansion    |                            |                                                                                                                                                       | Location ID           |                 |            |              |                         |
|                                                                                     | Client          |                | Heathrow Airport Limited |                            |                                                                                                                                                       | HEP-BH-2523           |                 |            |              |                         |
|                                                                                     | Fugro Reference |                | G190012U                 |                            |                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     | Coordinates (m) |                | E502861.03 N176031.03    | Ground Elevation (m Datum) | 20.39                                                                                                                                                 | Sheet 2 of 2          |                 |            |              |                         |
|                                                                                     | Hole Type       |                | Cable Percussion         |                            |                                                                                                                                                       | Status                | Final           |            |              |                         |
| Sampling and In Situ Testing                                                        |                 |                |                          | Strata Details             |                                                                                                                                                       |                       |                 |            | Groundwater  |                         |
| Depth (m)                                                                           | Type            | No.            | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                   | Depth (Thickness) (m) | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |
| 11.00 - 11.05<br>11.00 - 11.35<br>11.35 - 11.40                                     | D<br>UT<br>D    | 34<br>35<br>36 | 100/350 mm               | 11                         | Between 11.35 m and 14.00 m; with rare pockets (<40 mm) of silty, fine sand.                                                                          | (6.00)                |                 |            |              |                         |
| 12.00 - 12.05                                                                       | D               | 37             |                          | 12                         |                                                                                                                                                       |                       |                 |            |              |                         |
| 12.50 - 12.60<br>12.50                                                              | ES<br>PID       | 38             | < 0.1 ppm                |                            |                                                                                                                                                       |                       |                 |            |              |                         |
| 13.00 - 13.05<br>13.00 - 13.45<br>13.00 - 13.45                                     | D<br>D<br>SPT   | 39<br>40       | N = 29 (S)               | 13                         |                                                                                                                                                       |                       |                 |            |              |                         |
| 14.00 - 14.05                                                                       | D               | 41             |                          | 14                         | Very stiff, dark grey CLAY. With occasional partings (<1 mm) of silty, fine sand. With rare shell fragments (<1x1 mm). [LONDON CLAY FORMATION] [CLAY] | 14.00                 | 6.39            |            |              |                         |
| 15.00 - 15.05<br>15.00 - 15.40                                                      | D<br>UT         | 42<br>43       | 83/400 mm                | 15                         |                                                                                                                                                       | (2.00)                |                 |            |              |                         |
| 15.40 - 15.45<br>15.50 - 15.60<br>15.50                                             | D<br>ES<br>PID  | 44<br>45       | < 0.1 ppm                |                            |                                                                                                                                                       |                       |                 |            |              |                         |
| 15.90 - 16.00                                                                       | D               | 46             |                          | 16                         | End of Borehole at 16.00 m                                                                                                                            | 16.00                 | 4.39            |            |              |                         |
|                                                                                     |                 |                |                          | 17                         |                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     |                 |                |                          | 18                         |                                                                                                                                                       |                       |                 |            |              |                         |
|                                                                                     |                 |                |                          | 19                         |                                                                                                                                                       |                       |                 |            |              |                         |
| Notes                                                                               |                 |                |                          |                            |                                                                                                                                                       |                       |                 |            |              |                         |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                |                          |                            |                                                                                                                                                       |                       |                 |            |              |                         |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |                |                          |                            |                                                                                                                                                       |                       | Print Date      | 27/02/2020 |              |                         |

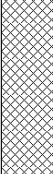
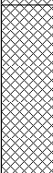
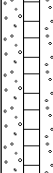
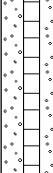
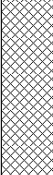
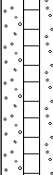
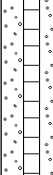
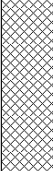
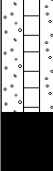
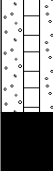
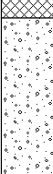
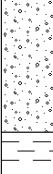
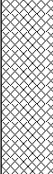
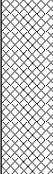
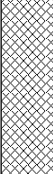
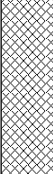
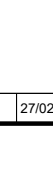
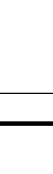
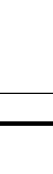
|                                                                                     |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
|-------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|------------------|----------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name   |                       | HAL Airport Expansion    |                          |                            |                                                                                                                                                                                                                                                         | Location ID        |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
|                                                                                     | Client          |                       | Heathrow Airport Limited |                          |                            |                                                                                                                                                                                                                                                         | <b>HEP-BH-2523</b> |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
|                                                                                     | Fugro Reference |                       | G190012U                 |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
|                                                                                     | Coordinates (m) |                       | E502861.03 N176031.03    |                          | Ground Elevation (m Datum) |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              | 20.39                                         |                                                                               |                                                                                  |               |                      |  |
|                                                                                     | Hole Type       |                       | Cable Percussion         |                          |                            |                                                                                                                                                                                                                                                         | Status             |                        | Final            |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Equipment                                                                           |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                  | Core Barrel                                                                                                                                                                                                                                             | Core Bit           | Drilling Crew          | Logged By        | Remarks                                      |                                               |                                                                               |                                                                                  |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>16.00   | IP<br>CP              | 12/06/2019<br>12/06/2019 | 12/06/2019<br>18/06/2019 | Hand-dug<br>Dando 3000     |                                                                                                                                                                                                                                                         |                    | CT<br>CT               | OJ<br>OJ         |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Progress                                                                            |                 |                       |                          |                          |                            | Rotary Details                                                                                                                                                                                                                                          |                    |                        |                  |                                              | Core Details                                  |                                                                               |                                                                                  |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                    | Depth From (m)                                                                                                                                                                                                                                          | Depth To (m)       | Flush Type             | Flush Return (%) | Flush Colour                                 | Run Time (hh:mm)                              | Depth From (m)                                                                | Depth To (m)                                                                     | Diameter (mm) |                      |  |
| 12/06/2019                                                                          | 08:00:00        | 0.00                  |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| 12/06/2019                                                                          | 09:00:00        | 1.20                  |                          |                          | Dry                        |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| 12/06/2019                                                                          | 18:00:00        | 3.00                  | 3.00                     | 1.70                     |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| 14/06/2019                                                                          | 08:00:00        | 3.00                  | 3.00                     | 1.70                     |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| 14/06/2019                                                                          | 18:00:00        | 8.00                  | 6.00                     |                          | Dry                        |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| 18/06/2019                                                                          | 08:00:00        | 8.00                  | 6.00                     |                          | Dry                        |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| 18/06/2019                                                                          | 18:00:00        | 16.00                 | 9.00                     |                          | Dry                        |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Hole and Casing                                                                     |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Depth To (m)                                                                        |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               | Casing Diameter (mm) |  |
| 8.00<br>16.00                                                                       |                 | 250<br>200            |                          | 6.00<br>9.00             |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               | 250<br>200           |  |
|                                                                                     |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Chiselling / Slow Progress                                                          |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Depth From (m)                                                                      |                 | Depth To (m)          |                          | Duration (hh:mm)         |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               | Tool / Remark        |  |
|                                                                                     |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
|                                                                                     |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Water Strike                                                                        |                 |                       |                          |                          |                            | Water Added                                                                                                                                                                                                                                             |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)     | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)             | Depth To (m)                                                                                                                                                                                                                                            |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| 2.30                                                                                | 1.70            | 20                    | 2.20                     |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Water Strike Remarks                                                                |                 |                       |                          |                          |                            | General Remarks                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
|                                                                                     |                 |                       |                          |                          |                            | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. Bentonite seal placed between 6.00 m and 8.00 m as instructed by IDT. |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Installation                                                                        |                 |                       |                          |                          | Pipe                       |                                                                                                                                                                                                                                                         |                    |                        |                  | Backfill                                     |                                               |                                                                               |                                                                                  |               |                      |  |
| Type                                                                                | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                         | Top Depth (m)                                                                                                                                                                                                                                           | Base Depth (m)     | Diameter (mm)          | Type             | Depth From (m)                               | Depth To (m)                                  | Backfill Material                                                             | Date                                                                             |               |                      |  |
| SP                                                                                  | 1               | 2.50                  | 5.50                     | 18/06/2019               | Pipe1<br>Pipe1             | 0.12<br>2.70                                                                                                                                                                                                                                            | 2.70<br>5.50       | 50<br>50               | Plain<br>Slotted | 0.00<br>0.05<br>0.20<br>2.50<br>5.50<br>6.00 | 0.05<br>0.20<br>2.50<br>5.50<br>6.00<br>16.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite<br>Grout | 18/06/2019<br>18/06/2019<br>18/06/2019<br>18/06/2019<br>18/06/2019<br>18/06/2019 |               |                      |  |
| Notes                                                                               |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              |                                               |                                                                               |                                                                                  |               |                      |  |
| Checked By                                                                          |                 | ROR                   |                          | Elevation Datum          |                            | Local Datum Not Defined                                                                                                                                                                                                                                 |                    | Grid Coordinate System |                  | OSGB                                         |                                               |                                                                               |                                                                                  |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                 |                       |                          |                          |                            |                                                                                                                                                                                                                                                         |                    |                        |                  |                                              | Print Date                                    |                                                                               | 27/02/2020                                                                       |               |                      |  |

[illegible]

|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
|----------------------------------------------------------------------------------------------|--|------|-----|---------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|---------------------------|--|
| <div></div> |  |      |     | Contract Name             |           |                                                                                                                                                                                   |   | HAL Airport Expansion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                            |                 | Location ID<br><b>HEP-BH-2524</b>                                                   |                                                                                     |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | Client                    |           |                                                                                                                                                                                   |   | Heathrow Airport Limited                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | Fugro Reference           |           |                                                                                                                                                                                   |   | G190012U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                            |                 | Sheet 1 of 1                                                                        |                                                                                     |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | Coordinates (m)           |           |                                                                                                                                                                                   |   | E502807.37 N175973.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | Ground Elevation (m Datum) |                 |                                                                                     |                                                                                     |                                                                                     |        | 20.44                     |  |
|                                                                                              |  |      |     | Hole Type                 |           |                                                                                                                                                                                   |   | Cable Percussion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | Status                    |  |
| Sampling and In Situ Testing                                                                 |  |      |     |                           |           |                                                                                                                                                                                   |   | Strata Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | Groundwater               |  |
| Depth (m)                                                                                    |  | Type | No. | Test Results              | Depth (m) | Strata Descriptions                                                                                                                                                               |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | Depth (Thickness) (m)      | Level (m Datum) | Legend                                                                              | Water Strike                                                                        | Backfill / Installation                                                             |        |                           |  |
| 0.00 - 0.05                                                                                  |  | D    | 1   | < 0.1 ppm                 |           | TOPSOIL: dark brown, slightly silty, slightly gravelly sand. With frequent rootlets (<3x5 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint. |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | (0.10)                     | 20.34           |  |  |  |        |                           |  |
| 0.00 - 0.10                                                                                  |  | B    | 3   |                           |           | [TOPSOIL] [SAND]                                                                                                                                                                  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 0.10                       |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 0.00 - 0.10                                                                                  |  | ES   | 2   |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 0.00                                                                                         |  | PID  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 0.10 - 0.15                                                                                  |  | D    | 4   |                           |           | 0.2 ppm                                                                                                                                                                           | 1 | MADE GROUND: (soft and firm), greyish brown, locally mottled blue and grey, slightly sandy, slightly gravelly clay. With occasional pockets (<10x50 mm) of coal. With occasional fragments of clinker (<60 mm) (2%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick, concrete, coal and rare slate.                                                                                                                                                                 |       |                            |                 |                                                                                     |                                                                                     |                                                                                     | (1.20) |                           |  |
| 0.10 - 0.20                                                                                  |  | ES   | 5   | [MADE GROUND] [CLAY]      |           |                                                                                                                                                                                   |   | 1.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 19.14 |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 0.10 - 0.60                                                                                  |  | LB   | 6   |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 0.10                                                                                         |  | PID  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 1.00 - 1.05                                                                                  |  | D    | 7   | 0.2 ppm                   | 1         |                                                                                                                                                                                   |   | MADE GROUND: brown, locally mottled orangish brown, slightly gravelly, clayey silt with low cobble content. With occasional pockets (<10x10 mm) of clinker. With occasional fragments of photographic film (<20x30x30 mm) (2%). With rare fragments of glass (<3x5 mm) (<1%), metal (<10x30x50 mm) (<1%) and wood debris (<3x10x15 mm) (D2) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<70x85x108 mm) are subangular of concrete. |       |                            |                 | 1.30                                                                                | 19.14                                                                               |                                                                                     |        |                           |  |
| 1.00 - 1.10                                                                                  |  | ES   | 8   |                           |           | [MADE GROUND] [CLAY]                                                                                                                                                              |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 1.90                                                                                | 18.54  |                           |  |
| 1.00                                                                                         |  | PID  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 1.30 - 1.35                                                                                  |  | D    | 9   |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 1.30 - 1.40                                                                                  |  | ES   | 10  |                           |           | < 0.1 ppm                                                                                                                                                                         | 2 | MADE GROUND: (soft and firm), dark grey and black, locally greyish brown, slightly sandy, gravelly clay with low cobble content. With rare fragments of plastic (<10x15 mm) (<1%), glass (<5x5 mm) (<1%), metal (<10x30x50 mm) (<1%), wood debris (<3x10x15 mm) (D2) (<1%) and clinker (<60 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick, concrete and coal. Cobbles (<70x85x108 mm) are subangular of concrete. With a slight putrid odour.           |       |                            |                 | (0.60)                                                                              |                                                                                     |                                                                                     |        |                           |  |
| 1.30 - 1.80                                                                                  |  | B    | 11  | [MADE GROUND] [SILT]      |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 1.90                                                                                | 18.54  |                           |  |
| 1.30                                                                                         |  | PID  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 1.50 - 2.00                                                                                  |  | LB   | 12  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 1.50 - 1.95                                                                                  |  | SPT  |     | N = 7 (C)                 | 2         |                                                                                                                                                                                   |   | MADE GROUND: dark grey, slightly clayey, sandy gravel with low cobble content. With occasional fragments of clinker (<60 mm) (2%). With rare fragments of photographic film (<20x30 mm) (<1%), glass (<3x5 mm) (<1%) and metal (<10x30x50 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<85x90x120 mm) are subangular of concrete.                                                                                               |       |                            |                 | 1.90                                                                                | 18.54                                                                               |                                                                                     |        |                           |  |
| 2.00 - 2.05                                                                                  |  | D    | 13  |                           |           | [MADE GROUND] [CLAY]                                                                                                                                                              |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 4.00                                                                                | 16.44  |                           |  |
| 2.00 - 2.10                                                                                  |  | ES   | 14  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 2.00 - 2.50                                                                                  |  | LB   | 15  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 2.00                                                                                         |  | PID  |     |                           |           | 0.6 ppm                                                                                                                                                                           | 3 | MADE GROUND: (soft and firm), dark grey and black, locally greyish brown, slightly sandy, gravelly clay with low cobble content. With rare fragments of plastic (<10x15 mm) (<1%), glass (<5x5 mm) (<1%), metal (<10x30x50 mm) (<1%), wood debris (<3x10x15 mm) (D2) (<1%) and clinker (<60 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick, concrete and coal. Cobbles (<70x85x108 mm) are subangular of concrete. With a slight putrid odour.           |       |                            |                 | (2.10)                                                                              |                                                                                     |                                                                                     |        |                           |  |
| 2.50 - 2.95                                                                                  |  | D    | 16  | [MADE GROUND] [GRAVEL]    |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 4.90                                                                                | 15.54  |                           |  |
| 2.50 - 2.95                                                                                  |  | SPT  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 3.00 - 3.05                                                                                  |  | D    | 17  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 3.00 - 3.10                                                                                  |  | ES   | 18  | 0.7 ppm                   | 3         |                                                                                                                                                                                   |   | MADE GROUND: dark grey, slightly clayey, sandy gravel with low cobble content. With occasional fragments of clinker (<60 mm) (2%). With rare fragments of photographic film (<20x30 mm) (<1%), glass (<3x5 mm) (<1%) and metal (<10x30x50 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<85x90x120 mm) are subangular of concrete.                                                                                               |       |                            |                 | 4.00                                                                                | 16.44                                                                               |                                                                                     |        |                           |  |
| 3.00                                                                                         |  | PID  |     |                           |           | [MADE GROUND] [CLAY]                                                                                                                                                              |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 4.90                                                                                | 15.54  |                           |  |
| 3.50 - 3.95                                                                                  |  | D    | 19  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 3.50 - 3.95                                                                                  |  | SPT  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 3.50 - 3.95                                                                                  |  |      |     |                           |           | N = 24 (S)                                                                                                                                                                        | 4 | MADE GROUND: (soft and firm), dark grey and black, locally greyish brown, slightly sandy, gravelly clay with low cobble content. With rare fragments of plastic (<10x15 mm) (<1%), glass (<5x5 mm) (<1%), metal (<10x30x50 mm) (<1%), wood debris (<3x10x15 mm) (D2) (<1%) and clinker (<60 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick, concrete and coal. Cobbles (<70x85x108 mm) are subangular of concrete. With a slight putrid odour.           |       |                            |                 | (2.10)                                                                              |                                                                                     |                                                                                     |        |                           |  |
| 4.00 - 4.05                                                                                  |  | D    | 20  | [MADE GROUND] [CLAY]      |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 4.90                                                                                | 15.54  |                           |  |
| 4.00 - 4.10                                                                                  |  | ES   | 21  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 4.00 - 4.50                                                                                  |  | B    | 22  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 4.00                                                                                         |  | PID  |     | < 0.1 ppm                 | 4         |                                                                                                                                                                                   |   | MADE GROUND: dark grey, slightly clayey, sandy gravel with low cobble content. With occasional fragments of clinker (<60 mm) (2%). With rare fragments of photographic film (<20x30 mm) (<1%), glass (<3x5 mm) (<1%) and metal (<10x30x50 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<85x90x120 mm) are subangular of concrete.                                                                                               |       |                            |                 | 4.00                                                                                | 16.44                                                                               |                                                                                     |        |                           |  |
| 4.90 - 4.95                                                                                  |  | D    | 23  |                           |           | [MADE GROUND] [GRAVEL]                                                                                                                                                            |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 4.90                                                                                | 15.54  |                           |  |
| 4.90 - 5.00                                                                                  |  | ES   | 24  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 4.90 - 5.40                                                                                  |  | B    | 25  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 4.90                                                                                         |  | PID  |     |                           |           | < 0.1 ppm                                                                                                                                                                         | 5 | MADE GROUND: (soft and firm), greyish brown, locally mottled orange and brown, slightly sandy, gravelly clay with low cobble content. With rare fragments of glass (<3x3 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<85x102x110 mm) are subangular of brick and concrete.                                                                                                                                                     |       |                            |                 | (1.30)                                                                              |                                                                                     |                                                                                     |        |                           |  |
| 5.90 - 5.95                                                                                  |  | D    | 26  | [MADE GROUND] [CLAY]      |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 6.20                                                                                | 14.24  |                           |  |
| 5.90 - 6.00                                                                                  |  | ES   | 27  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 5.90                                                                                         |  | PID  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 6.20 - 6.25                                                                                  |  | D    | 28  | 0.2 ppm                   | 6         |                                                                                                                                                                                   |   | MADE GROUND: dark grey and black, slightly clayey, sandy gravel with high cobble content. With rare fragments of wood debris (<8x20 mm) (D1) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<80x80x120 mm) are subangular of concrete.                                                                                                                                                                                                |       |                            |                 | 6.20                                                                                | 14.24                                                                               |                                                                                     |        |                           |  |
| 6.20 - 6.30                                                                                  |  | ES   | 29  |                           |           | [MADE GROUND] [CLAY]                                                                                                                                                              |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 6.50                                                                                | 13.94  |                           |  |
| 6.20 - 6.50                                                                                  |  | LB   | 30  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 6.20                                                                                         |  | PID  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 6.50 - 6.55                                                                                  |  | D    | 31  |                           |           | 0.2 ppm                                                                                                                                                                           | 7 | MADE GROUND: dark grey and black, slightly clayey, sandy gravel with high cobble content. With rare fragments of wood debris (<8x20 mm) (D1) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint, brick and concrete. Cobbles (<80x80x120 mm) are subangular of concrete.                                                                                                                                                                                                |       |                            |                 | 6.50                                                                                | 13.94                                                                               |                                                                                     |        |                           |  |
| 6.50 - 6.60                                                                                  |  | ES   | 32  | [MADE GROUND] [GRAVEL]    |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | (2.00)                                                                              |        |                           |  |
| 6.50 - 7.00                                                                                  |  | B    | 33  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 6.50                                                                                         |  | PID  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 7.00 - 7.10                                                                                  |  | ES   | 34  | < 0.1 ppm                 | 8         |                                                                                                                                                                                   |   | Firm becoming stiff, greyish brown, slightly sandy CLAY. With occasional bioturbation burrows (<3x5 mm), infilled with silt. Sand is fine to coarse.                                                                                                                                                                                                                                                                                                                                                          |       |                            |                 | (2.00)                                                                              |                                                                                     |                                                                                     |        |                           |  |
| 7.00 - 7.45                                                                                  |  | UT   | 35  |                           |           | [LONDON CLAY FORMATION] [CLAY]                                                                                                                                                    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
| 7.00                                                                                         |  | PID  |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
| 7.45 - 7.50                                                                                  |  | D    | 36  |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        |                           |  |
|                                                                                              |  |      |     |                           |           | < 0.1 ppm                                                                                                                                                                         | 9 | Between 6.50 m and 7.00 m; slightly gravelly. Gravel is fine and medium.                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
| 8.45 - 8.50                                                                                  |  | D    | 37  | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                | 11.94  |                           |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     |                                                                                     |        | End of Borehole at 8.50 m |  |
|                                                                                              |  |      |     |                           |           |                                                                                                                                                                                   |   | End of Borehole at 8.50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                            |                 | 8.50                                                                                | 11.94                                                                               |                                                                                     |        |                           |  |
|                                                                                              |  |      |     | End of Borehole at 8.50 m |           |                                                                                                                                                                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            |                 |                                                                                     |                                                                                     | 8.50                                                                                |        |                           |  |

|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|--------------------------------------|--------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|---------------|----------------------|--|
|    | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                                                                                                                                                                                   |                |                        | Location ID      |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Client                           |                       | Heathrow Airport Limited |                          |                        |                                                                                                                                                                                   |                |                        | HEP-BH-2524      |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Fugro Reference                  |                       | G190012U                 |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Coordinates (m)                  |                       | E502807.37 N175973.95    |                          |                        | Ground Elevation (m Datum)                                                                                                                                                        |                | 20.44                  |                  | Sheet 1 of 1                         |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     | Hole Type                        |                       | Cable Percussion         |                          |                        |                                                                                                                                                                                   |                |                        | Status           |                                      | Final                                |                                                                      |                                                                    |               |                      |  |
| Equipment                                                                           |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth From (m)                                                                      | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                                                                                                                                                                       | Core Bit       | Drilling Crew          | Logged By        | Remarks                              |                                      |                                                                      |                                                                    |               |                      |  |
| 0.00<br>1.20                                                                        | 1.20<br>8.50                     | IP<br>CP              | 19/06/2019<br>19/06/2019 | 19/06/2019<br>19/06/2019 | Hand-dug<br>Dando 3000 |                                                                                                                                                                                   |                | CT<br>CT               | OJ<br>OJ         |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Progress                                                                            |                                  |                       |                          |                          |                        | Rotary Details                                                                                                                                                                    |                |                        |                  |                                      | Core Details                         |                                                                      |                                                                    |               |                      |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)                                                                                                                                                                    | Depth To (m)   | Flush Type             | Flush Return (%) | Flush Colour                         | Run Time (hh:mm)                     | Depth From (m)                                                       | Depth To (m)                                                       | Diameter (mm) |                      |  |
| 19/06/2019<br>19/06/2019<br>19/06/2019                                              | 08:00:00<br>09:00:00<br>13:00:00 | 0.00<br>1.20<br>8.50  | 7.50                     | Dry<br>Dry               |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Hole and Casing                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth To (m)                                                                        |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               | Casing Diameter (mm) |  |
| 8.50                                                                                |                                  | 200                   |                          | 7.50                     |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               | 200                  |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Chiselling / Slow Progress                                                          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Depth From (m)                                                                      |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               | Tool / Remark        |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Water Strike                                                                        |                                  |                       |                          |                          |                        | Water Added                                                                                                                                                                       |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Strike At (m)                                                                       | Rise To (m)                      | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)         | Depth From (m)         | Depth To (m)                                                                                                                                                                      |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| 3.50                                                                                | 2.30                             | 20                    | 3.40                     |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Water Strike Remarks                                                                |                                  |                       |                          |                          |                        | General Remarks                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
|                                                                                     |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Installation                                                                        |                                  |                       |                          |                          | Pipe                   |                                                                                                                                                                                   |                |                        |                  | Backfill                             |                                      |                                                                      |                                                                    |               |                      |  |
| Type                                                                                | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)                                                                                                                                                                     | Base Depth (m) | Diameter (mm)          | Type             | Depth From (m)                       | Depth To (m)                         | Backfill Material                                                    | Date                                                               |               |                      |  |
| SP                                                                                  | 1                                | 1.00                  | 6.00                     | 19/06/2019               | Pipe1<br>Pipe1         | 0.13<br>1.20                                                                                                                                                                      | 1.20<br>6.00   | 50<br>50               | Plain<br>Slotted | 0.00<br>0.05<br>0.20<br>1.00<br>6.00 | 0.05<br>0.20<br>1.00<br>6.00<br>8.50 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 19/06/2019<br>19/06/2019<br>19/06/2019<br>19/06/2019<br>19/06/2019 |               |                      |  |
| Notes                                                                               |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  |                                      |                                      |                                                                      |                                                                    |               |                      |  |
| Checked By                                                                          |                                  | ROR                   |                          | Elevation Datum          |                        | Local Datum Not Defined                                                                                                                                                           |                | Grid Coordinate System |                  | OSGB                                 |                                      |                                                                      |                                                                    |               |                      |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                                  |                       |                          |                          |                        |                                                                                                                                                                                   |                |                        |                  | Print Date                           |                                      | 06/04/2020                                                           |                                                                    |               |                      |  |

[illegible]

|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|----------------------------------------------------------------------------------------------|------|-----|--------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|-----------------------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|--|
| <div></div> |      |     |              | Contract Name   |                                                                                                                                                                                                               |  | HAL Airport Expansion    |                       |                            | Location ID                                                                           |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              | Client          |                                                                                                                                                                                                               |  | Heathrow Airport Limited |                       |                            | HEP-BH-2525                                                                           |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              | Fugro Reference |                                                                                                                                                                                                               |  | G190012U                 |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              | Coordinates (m) |                                                                                                                                                                                                               |  | E502770.15 N175880.00    |                       | Ground Elevation (m Datum) |                                                                                       |                                                                                       |                                                                                       | 19.71       |  |
|                                                                                              |      |     |              | Hole Type       |                                                                                                                                                                                                               |  | Cable Percussion         |                       |                            | Status                                                                                |                                                                                       | Final                                                                                 |             |  |
| Sampling and In Situ Testing                                                                 |      |     |              |                 |                                                                                                                                                                                                               |  | Strata Details           |                       |                            |                                                                                       |                                                                                       |                                                                                       | Groundwater |  |
| Depth (m)                                                                                    | Type | No. | Test Results | Depth (m)       | Strata Descriptions                                                                                                                                                                                           |  |                          | Depth (Thickness) (m) | Level (m Datum)            | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                               |             |  |
| 0.00 - 0.05                                                                                  | D    | 1   |              |                 | TOPSOIL: dark brown, slightly sandy, slightly gravelly silt. With frequent roots and rootlets (<8x10 mm). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint. [TOPSOIL] [SILT] |  |                          | (0.30)                | 19.41                      |    |    |    |             |  |
| 0.00 - 0.10                                                                                  | ES   | 2   |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.00 - 0.30                                                                                  | LB   | 3   |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.00                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          | 0.30                  |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.30 - 0.35                                                                                  | D    | 4   |              |                 | MADE GROUND: (very soft), greyish brown, slightly sandy, gravelly clay. Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of flint. [MADE GROUND] [CLAY]                               |  |                          | (1.20)                |                            |    |    |    |             |  |
| 0.30 - 0.40                                                                                  | ES   | 5   |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.30 - 0.80                                                                                  | LB   | 6   |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 0.30                                                                                         | PID  |     | < 0.1 ppm    | 1               |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.30 - 1.35                                                                                  | D    | 7   |              |                 | MADE GROUND: (soft and firm), dark grey and brown, slightly sandy, gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint. [MADE GROUND] [CLAY]                  |  |                          | 1.50                  | 18.21                      |    |    |    |             |  |
| 1.30 - 1.40                                                                                  | ES   | 8   |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.30                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.50 - 1.55                                                                                  | D    | 10  |              |                 |                                                                                                                                                                                                               |  |                          | 1.50                  |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.50 - 1.60                                                                                  | ES   | 11  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.50 - 1.95                                                                                  | D    | 9   |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.50 - 2.00                                                                                  | B    | 12  |              | 2               |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.50 - 1.95                                                                                  | SPT  |     | N = 9 (S)    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 1.50                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.50 - 2.55                                                                                  | D    | 14  |              |                 |                                                                                                                                                                                                               |  |                          | (3.50)                |                            |    |    |    |             |  |
| 2.50 - 2.60                                                                                  | ES   | 15  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.50 - 2.95                                                                                  | D    | 13  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.50 - 2.95                                                                                  | SPT  |     | N = 11 (S)   |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 2.50                                                                                         | PID  |     | < 0.1 ppm    | 3               |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 3.50 - 3.55                                                                                  | D    | 17  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |   |   |   |             |  |
| 3.50 - 3.60                                                                                  | ES   | 18  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 3.50 - 3.95                                                                                  | D    | 16  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 3.50 - 3.95                                                                                  | SPT  |     | N = 4 (S)    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 3.50                                                                                         | PID  |     | < 0.1 ppm    | 4               |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 4.50 - 4.55                                                                                  | D    | 19  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |  |  |  |             |  |
| 4.50 - 4.60                                                                                  | ES   | 20  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 4.50                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 5.00 - 5.05                                                                                  | D    | 21  |              |                 |                                                                                                                                                                                                               |  |                          | 5.00                  | 14.71                      |  |  |  |             |  |
| 5.00 - 5.10                                                                                  | ES   | 22  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 5.00 - 5.50                                                                                  | B    | 23  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 5.00                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.00 - 6.05                                                                                  | D    | 25  |              |                 |                                                                                                                                                                                                               |  |                          | (1.90)                |                            |  |  |  |             |  |
| 6.00 - 6.10                                                                                  | ES   | 26  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.00 - 6.50                                                                                  | B    | 24  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.00 - 6.45                                                                                  | SPT  |     | N = 28 (C)   |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.00                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.90 - 6.95                                                                                  | D    | 27  |              |                 |                                                                                                                                                                                                               |  |                          | 6.90                  | 12.81                      |  |  |  |             |  |
| 6.90 - 7.00                                                                                  | ES   | 28  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.90 - 7.40                                                                                  | B    | 29  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 6.90                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 7.40 - 7.50                                                                                  | ES   | 30  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 7.40                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 7.50 - 7.95                                                                                  | UT   | 31  | 59/450 mm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 7.95 - 8.00                                                                                  | D    | 32  |              |                 |                                                                                                                                                                                                               |  |                          | (2.10)                |                            |  |  |  |             |  |
| 8.50 - 8.55                                                                                  | D    | 33  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 9.00 - 9.10                                                                                  | ES   | 34  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 9.00 - 9.45                                                                                  | D    | 35  |              |                 |                                                                                                                                                                                                               |  |                          | 9.00                  | 10.71                      |  |  |  |             |  |
| 9.00 - 9.45                                                                                  | SPT  |     | N = 21 (S)   |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 9.00                                                                                         | PID  |     | < 0.1 ppm    |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
| 9.50 - 9.55                                                                                  | D    | 36  |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |
|                                                                                              |      |     |              |                 |                                                                                                                                                                                                               |  |                          |                       |                            |                                                                                       |                                                                                       |                                                                                       |             |  |



|                                                                                   |                 |  |                          |                            |       |              |       |
|-----------------------------------------------------------------------------------|-----------------|--|--------------------------|----------------------------|-------|--------------|-------|
|  | Contract Name   |  | HAL Airport Expansion    |                            |       | Location ID  |       |
|                                                                                   | Client          |  | Heathrow Airport Limited |                            |       | HEP-BH-2525  |       |
|                                                                                   | Fugro Reference |  | G190012U                 |                            |       |              |       |
|                                                                                   | Coordinates (m) |  | E502770.15 N175880.00    | Ground Elevation (m Datum) | 19.71 | Sheet 2 of 2 |       |
|                                                                                   | Hole Type       |  | Cable Percussion         |                            |       | Status       | Final |

| Sampling and In Situ Testing            |                 |          |                         | Strata Details |                                                                                                                   |                       |                 |        | Groundwater  |                         |
|-----------------------------------------|-----------------|----------|-------------------------|----------------|-------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|--------|--------------|-------------------------|
| Depth (m)                               | Type            | No.      | Test Results            | Depth (m)      | Strata Descriptions                                                                                               | Depth (Thickness) (m) | Level (m Datum) | Legend | Water Strike | Backfill / Installation |
| 10.50 - 10.55                           | D               | 37       |                         |                |                                                                                                                   |                       |                 |        |              |                         |
| 11.00 - 11.45                           | UT              | 38       | 64/450 mm               | 11             |                                                                                                                   |                       |                 |        |              |                         |
| 11.45 - 11.50                           | D               | 39       |                         |                | Between 11.45 m and 11.50 m; with rare pockets (<3x5 mm) of shell fragments.                                      |                       |                 |        |              |                         |
| 12.00 - 12.10<br>12.00                  | ES<br>PID       | 40       | < 0.1 ppm               | 12             |                                                                                                                   |                       |                 |        |              |                         |
| 12.50 - 12.55                           | D               | 41       |                         |                |                                                                                                                   |                       |                 |        |              |                         |
| 13.00 - 13.45<br>13.00 - 13.45          | D<br>SPT        | 42       | N = 29 (S)              | 13             |                                                                                                                   | (7.90)                |                 |        |              |                         |
| 13.50 - 13.55                           | D               | 43       |                         |                | Between 13.50 m and 14.00 m; with occasional pyrite nodules (<10x15 mm) and pockets (<3x3 mm) of shell fragments. |                       |                 |        |              |                         |
|                                         |                 |          |                         | 14             |                                                                                                                   |                       |                 |        |              |                         |
| 14.50 - 14.55                           | D               | 44       |                         |                |                                                                                                                   |                       |                 |        |              |                         |
| 15.00 - 15.10<br>15.00 - 15.35<br>15.00 | ES<br>UT<br>PID | 45<br>46 | 100/350 mm<br>< 0.1 ppm | 15             |                                                                                                                   |                       |                 |        |              |                         |
| 15.35 - 15.40<br>15.50 - 15.55          | D<br>D          | 47<br>48 |                         |                |                                                                                                                   |                       |                 |        |              |                         |
|                                         |                 |          |                         | 16             |                                                                                                                   |                       |                 |        |              |                         |
| 16.50 - 16.55                           | D               | 49       |                         |                |                                                                                                                   |                       |                 |        |              |                         |
|                                         |                 |          |                         | 17             | End of Borehole at 16.90 m                                                                                        | 16.90                 | 2.81            |        |              |                         |
|                                         |                 |          |                         | 18             |                                                                                                                   |                       |                 |        |              |                         |
|                                         |                 |          |                         | 19             |                                                                                                                   |                       |                 |        |              |                         |

Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW

Print Date

27/02/2020

|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|------------------------|----------------------------|-------------------------|------------------|------------------------|----------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------|
|                                                                                                                                                                        | Contract Name   |                       | HAL Airport Expansion    |                          |                        |                            |                         |                  | Location ID            |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                                                                                         | Client          |                       | Heathrow Airport Limited |                          |                        |                            |                         |                  | <b>HEP-BH-2525</b>     |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                                                                                         | Fugro Reference |                       | G190012U                 |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                                                                                         | Coordinates (m) |                       | E502770.15 N175880.00    |                          |                        | Ground Elevation (m Datum) |                         | 19.71            |                        | Sheet 1 of 1                                 |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                                                                                         | Hole Type       |                       | Cable Percussion         |                          |                        |                            |                         |                  | Status                 |                                              | Final                                         |                                                                               |              |                                                                                  |
| Equipment                                                                                                                                                                                                                                               |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Depth From (m)                                                                                                                                                                                                                                          | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                | Core Bit                | Drilling Crew    | Logged By              | Remarks                                      |                                               |                                                                               |              |                                                                                  |
| 0.00<br>1.20                                                                                                                                                                                                                                            | 1.20<br>16.90   | IP<br>CP              | 20/06/2019<br>20/06/2019 | 20/06/2019<br>25/06/2019 | Hand-dug<br>Dando 3000 |                            |                         | CT<br>CT         | OJ<br>OJ               |                                              |                                               |                                                                               |              |                                                                                  |
| Progress                                                                                                                                                                                                                                                |                 |                       |                          |                          |                        | Rotary Details             |                         |                  |                        |                                              | Core Details                                  |                                                                               |              |                                                                                  |
| Date (dd/mm/yyyy)                                                                                                                                                                                                                                       | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)             | Depth To (m)            | Flush Type       | Flush Return (%)       | Flush Colour                                 | Run Time (hh:mm)                              | Depth From (m)                                                                | Depth To (m) | Diameter (mm)                                                                    |
| 20/06/2019                                                                                                                                                                                                                                              | 08:00:00        | 0.00                  |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| 20/06/2019                                                                                                                                                                                                                                              | 10:00:00        | 1.20                  |                          |                          | Dry                    |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| 20/06/2019                                                                                                                                                                                                                                              | 13:00:00        | 8.90                  | 7.00                     |                          | Dry                    |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| 25/06/2019                                                                                                                                                                                                                                              | 08:00:00        | 8.90                  | 7.00                     |                          | Dry                    |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| 25/06/2019                                                                                                                                                                                                                                              | 18:00:00        | 16.90                 | 9.00                     |                          | Dry                    |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Hole and Casing                                                                                                                                                                                                                                         |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Depth To (m)                                                                                                                                                                                                                                            |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                        | Casing Diameter (mm)       |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| 8.90<br>16.90                                                                                                                                                                                                                                           |                 | 250<br>200            |                          | 7.00<br>9.00             |                        | 250<br>200                 |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Chiselling / Slow Progress                                                                                                                                                                                                                              |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Depth From (m)                                                                                                                                                                                                                                          |                 | Depth To (m)          |                          | Duration (hh:mm)         |                        | Tool / Remark              |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Water Strike                                                                                                                                                                                                                                            |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Strike At (m)                                                                                                                                                                                                                                           |                 | Rise To (m)           |                          | Time Elapsed (mins)      |                        | Casing Depth (m)           |                         | Depth Sealed (m) |                        | Depth From (m)                               |                                               | Depth To (m)                                                                  |              |                                                                                  |
| 5.00                                                                                                                                                                                                                                                    |                 | 3.10                  |                          | 20                       |                        | 4.90                       |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Water Strike Remarks                                                                                                                                                                                                                                    |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| General Remarks                                                                                                                                                                                                                                         |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. Bentonite seal placed between 6.90 m and 8.90 m as instructed by IDT. |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Installation                                                                                                                                                                                                                                            |                 |                       |                          |                          | Pipe                   |                            |                         |                  |                        | Backfill                                     |                                               |                                                                               |              |                                                                                  |
| Type                                                                                                                                                                                                                                                    | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)              | Base Depth (m)          | Diameter (mm)    | Type                   | Depth From (m)                               | Depth To (m)                                  | Backfill Material                                                             |              | Date                                                                             |
| SP                                                                                                                                                                                                                                                      | 1               | 1.00                  | 4.50                     | 25/06/2019               | Pipe1<br>Pipe1         | 0.12<br>1.00               | 1.00<br>4.50            | 50<br>50         | Plain<br>Slotted       | 0.00<br>0.05<br>0.20<br>1.00<br>4.50<br>6.90 | 0.05<br>0.20<br>1.00<br>4.50<br>6.90<br>16.90 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite<br>Grout |              | 25/06/2019<br>25/06/2019<br>25/06/2019<br>25/06/2019<br>25/06/2019<br>25/06/2019 |
| Notes                                                                                                                                                                                                                                                   |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                                                                                                                     |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              |                                               |                                                                               |              |                                                                                  |
| Checked By                                                                                                                                                                                                                                              |                 | ROR                   |                          |                          | Elevation Datum        |                            | Local Datum Not Defined |                  | Grid Coordinate System |                                              | OSGB                                          |                                                                               |              |                                                                                  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                                                                                                                              |                 |                       |                          |                          |                        |                            |                         |                  |                        |                                              | Print Date                                    |                                                                               | 27/02/2020   |                                                                                  |

|                                                                                   |                 |  |                          |                            |       |                    |       |
|-----------------------------------------------------------------------------------|-----------------|--|--------------------------|----------------------------|-------|--------------------|-------|
|  | Contract Name   |  | HAL Airport Expansion    |                            |       | Location ID        |       |
|                                                                                   | Client          |  | Heathrow Airport Limited |                            |       | <b>HEP-BH-2525</b> |       |
|                                                                                   | Fugro Reference |  | G190012U                 |                            |       |                    |       |
|                                                                                   | Coordinates (m) |  | E502770.15 N175880.00    | Ground Elevation (m Datum) | 19.71 | Sheet 1 of 1       |       |
|                                                                                   | Hole Type       |  | Cable Percussion         |                            |       | Status             | Final |

| Standard Penetration Test Results |           |                              |                    |                        |                      |                  |                  |                 |  |
|-----------------------------------|-----------|------------------------------|--------------------|------------------------|----------------------|------------------|------------------|-----------------|--|
| Test Depth (m)                    | Test Type | Self Weight Penetration (mm) | Test Result        | Total Penetration (mm) | Hammer Serial Number | Energy Ratio (%) | Casing Depth (m) | Water Depth (m) |  |
| 1.50                              | S         | 0                            | N=9 (1,1/2,2,2,3)  | 450                    | AR2315               | 50               | 1.50             | Dry             |  |
| 2.50                              | S         | 0                            | N=11 (1,2/2,3,3,3) | 450                    | AR2315               | 50               | 2.50             | Dry             |  |
| 3.50                              | S         | 0                            | N=4 (1,0/0,1,1,2)  | 450                    | AR2315               | 50               | 3.50             | Dry             |  |
| 6.00                              | C         | 0                            | N=28 (5,6/5,6,8,9) | 450                    | AR2315               | 50               | 6.00             | Dry             |  |
| 9.00                              | S         | 0                            | N=21 (2,2/4,5,6,6) | 450                    | AR2315               | 50               | 9.00             | Dry             |  |
| 13.00                             | S         | 0                            | N=29 (2,3/5,7,8,9) | 450                    | AR2315               | 50               | 9.00             | Dry             |  |

| In Situ Vane Test Results |           |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |
|---------------------------|-----------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|
| Test Depth (m)            | Test Type | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |
|                           |           |                                            |                                         |                                   |                                            | 0.00                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 0.30                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 1.30                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 1.50                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 2.50                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 3.50                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 4.50                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 5.00                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 6.00                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 6.90                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 7.40                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 9.00                                                   | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 12.00                                                  | < 0.1            |
|                           |           |                                            |                                         |                                   |                                            | 15.00                                                  | < 0.1            |

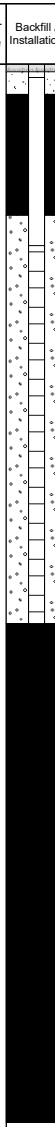
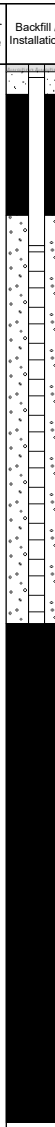
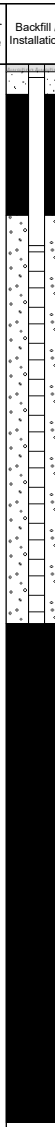
Notes

- Abbreviations and results data defined on 'Notes on Exploratory Position Records'

Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS

Print Date

27/02/2020

|                                                                                     |  |                            |                  |                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
|-------------------------------------------------------------------------------------|--|----------------------------|------------------|-------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|-------|
|    |  | Contract Name              |                  |                         |                   | HAL Airport Expansion                                                                                                                                                                                                                                                                                                                                                                                                        |                            | Location ID                                                                                                                                                                                                                                                                            |                                                                                      | HEP-BH-2526                                                                          |                                                                                      |        |       |
|                                                                                     |  | Client                     |                  |                         |                   | Heathrow Airport Limited                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
|                                                                                     |  | Fugro Reference            |                  |                         |                   | G190012U                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
|                                                                                     |  | Coordinates (m)            |                  |                         |                   | E502919.93 N175853.84                                                                                                                                                                                                                                                                                                                                                                                                        | Ground Elevation (m Datum) | 20.47                                                                                                                                                                                                                                                                                  | Sheet 1 of 1                                                                         |                                                                                      |                                                                                      |        |       |
|                                                                                     |  | Hole Type                  |                  |                         |                   | Cable Percussion                                                                                                                                                                                                                                                                                                                                                                                                             |                            | Status                                                                                                                                                                                                                                                                                 |                                                                                      | Final                                                                                |                                                                                      |        |       |
| Sampling and In Situ Testing                                                        |  |                            |                  | Strata Details          |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      | Groundwater                                                                          |                                                                                      |        |       |
| Depth (m)                                                                           |  | Type                       | No.              | Test Results            | Depth (m)         | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                          | Depth (Thickness) (m)      | Level (m Datum)                                                                                                                                                                                                                                                                        | Legend                                                                               | Water Strike                                                                         | Backfill / Installation                                                              |        |       |
| 0.10 - 0.15<br>0.10 - 0.60<br>0.20 - 0.30<br>0.20                                   |  | D<br>B<br>ES<br>PID        | 2<br>1<br>3      | < 0.1 ppm               | 0.10<br>0.10<br>1 | TOPSOIL: brown silt. With frequent rootlets (<1x10 mm).<br>[TOPSOIL] [SILT]<br>MADE GROUND: (soft), brown, slightly sandy, slightly gravelly clay. With rare fragments of plastic (<2x5 mm) (<1%). Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of brick and chalk.<br>[MADE GROUND] [CLAY]<br>Between 1.00 m and 1.20 m; gravelly. Gravel is angular to subrounded, fine to coarse of flint. | (0.10)<br>0.10             | 20.37                                                                                                                                                                                                                                                                                  |  |  |  |        |       |
| 1.50 - 1.60<br>1.50 - 2.00<br>1.50<br>1.60 - 1.65<br>2.00 - 2.60                    |  | ES<br>B<br>PID<br>D<br>B   | 5<br>4<br>6<br>7 |                         |                   | < 0.1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                          | MADE GROUND: (soft), dark greyish brown, slightly sandy, gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]<br>Between 2.00 m and 2.60 m; slightly sandy gravelly clay / clayey very sandy gravel. |                                                                                      |                                                                                      |                                                                                      | 1.50   | 18.97 |
| 2.60 - 2.70<br>2.60<br>2.70 - 2.75<br>3.00 - 3.50                                   |  | ES<br>PID<br>D<br>B        | 8<br>9<br>10     |                         |                   | < 0.1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                          | Between 2.50 m and 4.20 m; brick gravel is absent.                                                                                                                                                                                                                                     |                                                                                      |                                                                                      |                                                                                      | (2.70) |       |
| 3.50 - 3.60<br>3.50<br>3.60 - 3.65                                                  |  | ES<br>PID<br>D             | 11<br>12         | < 0.1 ppm               | 4                 | Medium dense, orange, grey and brown, slightly sandy GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL]<br>Between 4.50 m and 5.00 m; clayey, very sandy gravel.                                                                                                                                                                             | 4.20                       | 16.27                                                                                                                                                                                                                                                                                  |  |  |                                                                                      |        |       |
| 4.20 - 4.30<br>4.20<br>4.30 - 4.35<br>4.50 - 4.95<br>4.50 - 4.95                    |  | ES<br>PID<br>D<br>B<br>SPT | 14<br>15<br>13   | < 0.1 ppm<br>N = 26 (C) | 5                 |                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.00                       | 15.47                                                                                                                                                                                                                                                                                  |                                                                                      |                                                                                      |                                                                                      |        |       |
| 5.00 - 5.50                                                                         |  | B                          | 16               |                         | 6                 |                                                                                                                                                                                                                                                                                                                                                                                                                              | (2.00)                     |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
| 5.50 - 5.60<br>5.50<br>5.60 - 5.65                                                  |  | ES<br>PID<br>D             | 17<br>18         | < 0.1 ppm               | 7                 | End of Borehole at 7.00 m                                                                                                                                                                                                                                                                                                                                                                                                    | 7.00                       | 13.47                                                                                                                                                                                                                                                                                  |  |  |                                                                                      |        |       |
| 6.00 - 6.45                                                                         |  | UT                         | 19               | 60/450 mm               |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
| 6.45 - 6.50                                                                         |  | D                          | 20               |                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
| 6.90 - 7.00<br>6.90                                                                 |  | ES<br>PID                  | 21               | < 0.1 ppm               |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
| Notes                                                                               |  |                            |                  |                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |  |                            |                  |                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |  |                            |                  |                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                      |                                                                                      |        |       |
| Print Date                                                                          |  |                            |                  |                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                                                                                                                                                                                        |                                                                                      | 27/02/2020                                                                           |                                                                                      |        |       |

|                                                                                                                                                                                   |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|--------------------------|--------------------------|------------------------|----------------------------|-------------------------|------------------|--------------------|--------------------------------------|--------------------------------------|----------------------------------------------------------------------|--------------|--------------------------------------------------------------------|
|                                                                                                  | Contract Name                    |                       | HAL Airport Expansion    |                          |                        |                            |                         |                  | Location ID        |                                      |                                      |                                                                      |              |                                                                    |
|                                                                                                                                                                                   | Client                           |                       | Heathrow Airport Limited |                          |                        |                            |                         |                  | <b>HEP-BH-2526</b> |                                      |                                      |                                                                      |              |                                                                    |
|                                                                                                                                                                                   | Fugro Reference                  |                       | G190012U                 |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
|                                                                                                                                                                                   | Coordinates (m)                  |                       | E502919.93 N175853.84    |                          |                        | Ground Elevation (m Datum) |                         | 20.47            |                    | Sheet 1 of 1                         |                                      |                                                                      |              |                                                                    |
|                                                                                                                                                                                   | Hole Type                        |                       | Cable Percussion         |                          |                        |                            |                         |                  | Status             |                                      | Final                                |                                                                      |              |                                                                    |
| Equipment                                                                                                                                                                         |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Depth From (m)                                                                                                                                                                    | Depth To (m)                     | Hole Type             | Date From                | Date To                  | Equipment              | Core Barrel                | Core Bit                | Drilling Crew    | Logged By          | Remarks                              |                                      |                                                                      |              |                                                                    |
| 0.00<br>1.20                                                                                                                                                                      | 1.20<br>7.00                     | IP<br>CP              | 26/06/2019<br>26/06/2019 | 26/06/2019<br>26/06/2019 | Hand-dug<br>Dando 3000 |                            |                         | SB<br>SB         | JJ<br>JJ           |                                      |                                      |                                                                      |              |                                                                    |
| Progress                                                                                                                                                                          |                                  |                       |                          |                          |                        | Rotary Details             |                         |                  |                    |                                      | Core Details                         |                                                                      |              |                                                                    |
| Date (dd/mm/yyyy)                                                                                                                                                                 | Time (hh:mm:ss)                  | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                | Depth From (m)             | Depth To (m)            | Flush Type       | Flush Return (%)   | Flush Colour                         | Run Time (hh:mm)                     | Depth From (m)                                                       | Depth To (m) | Diameter (mm)                                                      |
| 26/06/2019<br>26/06/2019<br>26/06/2019                                                                                                                                            | 09:00:00<br>10:45:00<br>18:00:00 | 0.00<br>1.20<br>7.00  | 5.30                     | Dry<br>7.00              |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Hole and Casing                                                                                                                                                                   |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Depth To (m)                                                                                                                                                                      |                                  | Hole Diameter (mm)    |                          | Depth To (m)             |                        | Casing Diameter (mm)       |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| 7.00                                                                                                                                                                              |                                  | 200                   |                          | 5.30                     |                        | 200                        |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Chiselling / Slow Progress                                                                                                                                                        |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Depth From (m)                                                                                                                                                                    |                                  | Depth To (m)          |                          | Duration (hh:mm)         |                        | Tool / Remark              |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
|                                                                                                                                                                                   |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Water Strike                                                                                                                                                                      |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Strike At (m)                                                                                                                                                                     |                                  | Rise To (m)           |                          | Time Elapsed (mins)      |                        | Casing Depth (m)           |                         | Depth Sealed (m) |                    | Depth From (m)                       |                                      | Depth To (m)                                                         |              |                                                                    |
| 4.00                                                                                                                                                                              |                                  | 2.83                  |                          | 20                       |                        | 3.60                       |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Water Strike Remarks                                                                                                                                                              |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| General Remarks                                                                                                                                                                   |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Installation                                                                                                                                                                      |                                  |                       |                          |                          | Pipe                   |                            |                         |                  |                    | Backfill                             |                                      |                                                                      |              |                                                                    |
| Type                                                                                                                                                                              | ID                               | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                     | Top Depth (m)              | Base Depth (m)          | Diameter (mm)    | Type               | Depth From (m)                       | Depth To (m)                         | Backfill Material                                                    |              | Date                                                               |
| SP                                                                                                                                                                                | 1                                | 1.00                  | 3.70                     | 26/06/2019               | Pipe1<br>Pipe1         | 0.09<br>1.20               | 1.20<br>3.70            | 50<br>50         | Plain<br>Slotted   | 0.00<br>0.05<br>0.20<br>1.00<br>3.70 | 0.05<br>0.20<br>1.00<br>3.70<br>7.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite |              | 26/06/2019<br>26/06/2019<br>26/06/2019<br>26/06/2019<br>26/06/2019 |
| Notes                                                                                                                                                                             |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                                               |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      |                                      |                                                                      |              |                                                                    |
| Checked By                                                                                                                                                                        |                                  | ROR                   |                          |                          | Elevation Datum        |                            | Local Datum Not Defined |                  |                    | Grid Coordinate System               |                                      | OSGB                                                                 |              |                                                                    |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                                                        |                                  |                       |                          |                          |                        |                            |                         |                  |                    |                                      | Print Date                           |                                                                      | 27/02/2020   |                                                                    |

[illegible]

|                                                                                   |                     |     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
|-----------------------------------------------------------------------------------|---------------------|-----|--------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
|  | Contract Name       |     | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                                                                | Location ID           |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
|                                                                                   | Client              |     | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                                                                | <b>HEP-BH-2527</b>    |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
|                                                                                   | Fugro Reference     |     | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
|                                                                                   | Coordinates (m)     |     | E502986.85 N175791.86    | Ground Elevation (m Datum) | 20.00                                                                                                                                                                                                                                                                                                                                                                                          | Sheet 1 of 2          |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
|                                                                                   | Hole Type           |     | Cable Percussion         |                            |                                                                                                                                                                                                                                                                                                                                                                                                | Status                | Final                                                                                 |                                                                                       |                                                                                       |                                                                                     |       |
| Sampling and In Situ Testing                                                      |                     |     |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       | Groundwater                                                                           |                                                                                     |       |
| Depth (m)                                                                         | Type                | No. | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                            | Depth (Thickness) (m) | Level (m Datum)                                                                       | Legend                                                                                | Water Strike                                                                          | Backfill / Installation                                                             |       |
| 0.20 - 0.30                                                                       | ES<br>B<br>PID<br>D | 2   | < 0.1 ppm                | 1                          | TOPSOIL: brown silt. With frequent rootlets (<1x12 mm).<br>[TOPSOIL] [SILT]                                                                                                                                                                                                                                                                                                                    | (0.20)                | 19.80                                                                                 |    |    |  |       |
| 0.20 - 0.60                                                                       |                     | 1   |                          |                            | MADE GROUND: (very soft), dark brown, slightly sandy, slightly gravelly clay. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint and brick.<br>[MADE GROUND] [CLAY]<br>Between 0.20 m and 1.50 m; IDT engineer noted rare fragments of black plastic (<1%).                                                                                                  | 0.20                  |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 0.20                                                                              |                     | 3   |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                | (1.00)                |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 0.30 - 0.35                                                                       | ES<br>B<br>PID<br>D | 5   | < 0.1 ppm                | 2                          | MADE GROUND: (firm), black, mottled dark greyish brown, slightly gravelly, sandy clay. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, chalk and brick.<br>[MADE GROUND] [CLAY]<br>At 1.50 m; IDT engineer noted a fragment of rubber mat (<20x200x200 mm).<br>Between 1.50 m and 2.00 m; IDT engineer noted rare fragments of black wood debris (D2) (<1%). | 1.20                  | 18.80                                                                                 |    |    |  |       |
| 1.20 - 1.30                                                                       |                     | 4   |                          |                            | Between 3.50 m and 4.20 m; brick gravel is absent.                                                                                                                                                                                                                                                                                                                                             | (3.00)                |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 1.20 - 1.70                                                                       |                     | 6   |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     | 4.20  |
| 1.20                                                                              | ES<br>B<br>PID<br>D | 8   | < 0.1 ppm                | 3                          | Loose to medium dense, grey, orange and brown, slightly clayey, sandy GRAVEL. Sand is fine to coarse. Gravel is subangular and subrounded, fine to coarse of flint.<br>[RIVER TERRACE DEPOSITS] [GRAVEL]                                                                                                                                                                                       | (0.80)                |  |  |  |                                                                                     |       |
| 1.30 - 1.35                                                                       |                     | 7   |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 5.00                                                                                | 15.00 |
| 2.00 - 2.10                                                                       |                     | 9   |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 2.00 - 2.50                                                                       | ES<br>B<br>PID<br>D | 11  | < 0.1 ppm                | 4                          | Stiff, fissured, dark brownish grey, slightly sandy CLAY. Sand is fine to coarse. Fissures are randomly orientated, extremely closely spaced, mainly undulating, occasionally planar, rough and smooth.<br>[LONDON CLAY FORMATION] [CLAY]<br>Between 5.00 m and 5.50 m; slightly gravelly. Gravel is mainly fine.                                                                              | (8.50)                |  |  |  |                                                                                     |       |
| 2.00                                                                              |                     | 10  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 6.00 - 6.45                                                                         | UT    |
| 2.10 - 2.15                                                                       |                     | 12  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 3.00 - 3.10                                                                       | ES<br>B<br>PID<br>D | 13  | < 0.1 ppm                | 5                          | Between 9.00 m and 13.50 m; micaceous.                                                                                                                                                                                                                                                                                                                                                         | (8.50)                |  |  |  |                                                                                     |       |
| 3.00 - 3.50                                                                       |                     | 14  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 7.50 - 7.95                                                                         | D     |
| 3.00                                                                              |                     | 15  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 3.10 - 3.15                                                                       | ES<br>B<br>PID<br>D | 16  | < 0.1 ppm                | 6                          | 75/450 mm                                                                                                                                                                                                                                                                                                                                                                                      | (8.50)                |  |  |  |                                                                                     |       |
| 4.20 - 4.30                                                                       |                     | 17  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 8.25 - 8.30                                                                         | D     |
| 4.30 - 4.35                                                                       |                     | 18  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 19  | < 0.1 ppm                | 7                          | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 20  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 21  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 22  | < 0.1 ppm                | 8                          | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 23  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 24  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 25  | < 0.1 ppm                | 9                          | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 26  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 27  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 28  | < 0.1 ppm                | 10                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 29  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 30  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 31  | < 0.1 ppm                | 11                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 32  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 33  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 34  | < 0.1 ppm                | 12                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 35  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 36  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 37  | < 0.1 ppm                | 13                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 38  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 39  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 40  | < 0.1 ppm                | 14                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 41  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 42  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 43  | < 0.1 ppm                | 15                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 44  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 45  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 46  | < 0.1 ppm                | 16                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 47  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 48  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 49  | < 0.1 ppm                | 17                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 50  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 51  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 52  | < 0.1 ppm                | 18                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 53  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 54  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 55  | < 0.1 ppm                | 19                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 56  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 57  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 58  | < 0.1 ppm                | 20                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 59  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 60  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 61  | < 0.1 ppm                | 21                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 62  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 63  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 64  | < 0.1 ppm                | 22                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 65  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 66  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 67  | < 0.1 ppm                | 23                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 68  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 69  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 70  | < 0.1 ppm                | 24                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 71  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 72  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 73  | < 0.1 ppm                | 25                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 74  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 75  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 76  | < 0.1 ppm                | 26                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 77  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 78  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 79  | < 0.1 ppm                | 27                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 80  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 81  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 82  | < 0.1 ppm                | 28                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 83  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 84  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 85  | < 0.1 ppm                | 29                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 86  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 87  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 88  | < 0.1 ppm                | 30                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 89  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 90  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 91  | < 0.1 ppm                | 31                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 92  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 93  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 94  | < 0.1 ppm                | 32                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 95  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 96  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 97  | < 0.1 ppm                | 33                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 98  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 99  |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 100 | < 0.1 ppm                | 34                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 101 |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 102 |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 103 | < 0.1 ppm                | 35                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 104 |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 105 |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 106 | < 0.1 ppm                | 36                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 107 |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 108 |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 109 | < 0.1 ppm                | 37                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |  |  |  |                                                                                     |       |
| 4.40 - 4.45                                                                       |                     | 110 |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       | 9.00 - 9.45                                                                         | UT    |
| 4.40 - 4.45                                                                       |                     | 111 |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |
| 4.40 - 4.45                                                                       | ES<br>B<br>PID<br>D | 112 | < 0.1 ppm                | 38                         | 110/450 mm                                                                                                                                                                                                                                                                                                                                                                                     | (8.50)                |                                                                                       |                                                                                       |                                                                                       |                                                                                     |       |

|                                                                                     |                 |          |                          |                |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
|-------------------------------------------------------------------------------------|-----------------|----------|--------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------|-------------------------|--|
|    | Contract Name   |          | HAL Airport Expansion    |                |                                                                                                                                                                                                                | Location ID           |                 |            |              |                         |  |
|                                                                                     | Client          |          | Heathrow Airport Limited |                |                                                                                                                                                                                                                | HEP-BH-2527           |                 |            |              |                         |  |
|                                                                                     | Fugro Reference |          | G190012U                 |                |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
|                                                                                     | Coordinates (m) |          | E502986.85 N175791.86    |                | Ground Elevation (m Datum)                                                                                                                                                                                     |                       | 20.00           |            | Sheet 2 of 2 |                         |  |
|                                                                                     | Hole Type       |          | Cable Percussion         |                |                                                                                                                                                                                                                | Status                |                 | Final      |              |                         |  |
| Sampling and In Situ Testing                                                        |                 |          |                          | Strata Details |                                                                                                                                                                                                                |                       |                 |            |              | Groundwater             |  |
| Depth (m)                                                                           | Type            | No.      | Test Results             | Depth (m)      | Strata Descriptions                                                                                                                                                                                            | Depth (Thickness) (m) | Level (m Datum) | Legend     | Water Strike | Backfill / Installation |  |
| 11.00 - 11.45<br>11.00 - 11.45                                                      | D<br>SPT        | 27       | N = 24 (S)               | 11             |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
| 11.50 - 11.55<br>11.60 - 11.70<br>11.60                                             | D<br>ES<br>PID  | 29<br>28 | < 0.1 ppm                | 12             |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
| 13.00 - 13.45<br>13.10 - 13.15                                                      | UT<br>D         | 30<br>32 | 105/450 mm               | 13             |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
| 13.45 - 13.50                                                                       | D               | 31       |                          |                | Very stiff, fissured, dark brownish grey, micaceous CLAY. Fissures are randomly orientated, extremely closely spaced, mainly undulating, occasionally planar, rough and smooth. [LONDON CLAY FORMATION] [CLAY] | 13.50                 | 6.50            |            |              |                         |  |
| 14.00 - 14.10<br>14.00                                                              | ES<br>PID       | 33       | < 0.1 ppm                | 14             |                                                                                                                                                                                                                | (1.50)                |                 |            |              |                         |  |
|                                                                                     |                 |          |                          | 15             | End of Borehole at 15.00 m                                                                                                                                                                                     | 15.00                 | 5.00            |            |              |                         |  |
|                                                                                     |                 |          |                          | 16             |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
|                                                                                     |                 |          |                          | 17             |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
|                                                                                     |                 |          |                          | 18             |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
|                                                                                     |                 |          |                          | 19             |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
| Notes                                                                               |                 |          |                          |                |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |          |                          |                |                                                                                                                                                                                                                |                       |                 |            |              |                         |  |
| Template: FGSL/HBSI/FGSL Cable Percussion.hbt/Config Fugro Rev5/24/01/2020/TS+AW    |                 |          |                          |                |                                                                                                                                                                                                                | Print Date            |                 | 27/02/2020 |              |                         |  |



|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|--------------------------|--------------------------|----------------------------------|----------------------|-------------------------|------------------|------------------------|--------------------------------------|---------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|---------------|
|                                                                                                                                                                        | Contract Name   |                       | HAL Airport Expansion    |                          |                                  |                      | Location ID             |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
|                                                                                                                                                                                                                                                         | Client          |                       | Heathrow Airport Limited |                          |                                  |                      | <b>HEP-BH-2527</b>      |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
|                                                                                                                                                                                                                                                         | Fugro Reference |                       | G190012U                 |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
|                                                                                                                                                                                                                                                         | Coordinates (m) |                       | E502986.85 N175791.86    |                          | Ground Elevation (m Datum) 20.00 |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
|                                                                                                                                                                                                                                                         | Hole Type       |                       | Cable Percussion         |                          |                                  |                      | Sheet 1 of 1            |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  | Status               |                         | Final            |                        |                                      |                                       |                                                                      |                                                                    |               |
| Equipment                                                                                                                                                                                                                                               |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Depth From (m)                                                                                                                                                                                                                                          | Depth To (m)    | Hole Type             | Date From                | Date To                  | Equipment                        | Core Barrel          | Core Bit                | Drilling Crew    | Logged By              | Remarks                              |                                       |                                                                      |                                                                    |               |
| 0.00<br>1.20                                                                                                                                                                                                                                            | 1.20<br>15.00   | IP<br>CP              | 19/06/2019<br>20/06/2019 | 19/06/2019<br>25/06/2019 | Hand-dug<br>Dando 3000           |                      |                         | SB<br>SB         | JJ<br>JJ               |                                      |                                       |                                                                      |                                                                    |               |
| Progress                                                                                                                                                                                                                                                |                 |                       |                          |                          | Rotary Details                   |                      |                         |                  |                        | Core Details                         |                                       |                                                                      |                                                                    |               |
| Date (dd/mm/yyyy)                                                                                                                                                                                                                                       | Time (hh:mm:ss) | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)          | Weather                          | Depth From (m)       | Depth To (m)            | Flush Type       | Flush Return (%)       | Flush Colour                         | Run Time (hh:mm)                      | Depth From (m)                                                       | Depth To (m)                                                       | Diameter (mm) |
| 19/06/2019                                                                                                                                                                                                                                              | 16:15:00        | 0.00                  |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| 19/06/2019                                                                                                                                                                                                                                              | 17:15:00        | 1.20                  |                          |                          | Dry                              |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| 20/06/2019                                                                                                                                                                                                                                              | 08:00:00        | 1.20                  |                          |                          | Dry                              |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| 20/06/2019                                                                                                                                                                                                                                              | 18:00:00        | 7.00                  | 6.00                     | 7.00                     | 7.00                             |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| 25/06/2019                                                                                                                                                                                                                                              | 12:45:00        | 7.00                  | 6.00                     | 7.00                     | 7.00                             |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| 25/06/2019                                                                                                                                                                                                                                              | 18:00:00        | 15.00                 | 7.60                     | Dry                      |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Hole and Casing                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Depth To (m)                                                                                                                                                                                                                                            |                 | Hole Diameter (mm)    |                          | Depth To (m)             |                                  | Casing Diameter (mm) |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| 7.00<br>15.00                                                                                                                                                                                                                                           |                 | 250<br>200            |                          | 6.00<br>7.60             |                                  | 250<br>200           |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Chiselling / Slow Progress                                                                                                                                                                                                                              |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Depth From (m)                                                                                                                                                                                                                                          |                 | Depth To (m)          |                          | Duration (hh:mm)         |                                  | Tool / Remark        |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
|                                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Water Strike                                                                                                                                                                                                                                            |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Strike At (m)                                                                                                                                                                                                                                           |                 | Rise To (m)           |                          | Time Elapsed (mins)      |                                  | Casing Depth (m)     |                         | Depth Sealed (m) |                        | Depth From (m)                       |                                       | Depth To (m)                                                         |                                                                    |               |
| 4.20                                                                                                                                                                                                                                                    |                 | 1.90                  |                          | 20                       |                                  | 4.00                 |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Water Strike Remarks                                                                                                                                                                                                                                    |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| General Remarks                                                                                                                                                                                                                                         |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. Bentonite seal placed between 5.00 m and 7.00 m as instructed by IDT. |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Installation                                                                                                                                                                                                                                            |                 |                       |                          |                          | Pipe                             |                      |                         |                  |                        | Backfill                             |                                       |                                                                      |                                                                    |               |
| Type                                                                                                                                                                                                                                                    | ID              | Response Zone Top (m) | Response Zone Base (m)   | Installation Date        | ID                               | Top Depth (m)        | Base Depth (m)          | Diameter (mm)    | Type                   | Depth From (m)                       | Depth To (m)                          | Backfill Material                                                    | Date                                                               |               |
| SP                                                                                                                                                                                                                                                      | 1               | 1.00                  | 3.70                     | 25/06/2019               | Pipe1<br>Pipe1                   | 0.04<br>1.20         | 1.20<br>3.70            | 50<br>50         | Plain<br>Slotted       | 0.00<br>0.05<br>0.20<br>1.00<br>3.70 | 0.05<br>0.20<br>1.00<br>3.70<br>15.00 | Flush Cover<br>Concrete<br>Bentonite<br>Gravel Backfill<br>Bentonite | 25/06/2019<br>25/06/2019<br>25/06/2019<br>25/06/2019<br>25/06/2019 |               |
| Notes                                                                                                                                                                                                                                                   |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records'                                                                                                                                                                     |                 |                       |                          |                          |                                  |                      |                         |                  |                        |                                      |                                       |                                                                      |                                                                    |               |
| Checked By                                                                                                                                                                                                                                              |                 | ROR                   |                          |                          | Elevation Datum                  |                      | Local Datum Not Defined |                  | Grid Coordinate System |                                      | OSGB                                  |                                                                      |                                                                    |               |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW                                                                                                                                                                              |                 |                       |                          |                          |                                  |                      |                         |                  |                        | Print Date                           |                                       | 27/02/2020                                                           |                                                                    |               |

[illegible]

|                                                                                   |                      |                |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
|-----------------------------------------------------------------------------------|----------------------|----------------|--------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
|  | Contract Name        |                | HAL Airport Expansion    |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Location ID            |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
|                                                                                   | Client               |                | Heathrow Airport Limited |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>HEP-TP-2558</b>     |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
|                                                                                   | Fugro Reference      |                | G190012U                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
|                                                                                   | Coordinates (m)      |                | E502812.57 N176172.06    | Ground Elevation (m Datum) | 21.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sheet 1 of 1           |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
|                                                                                   | Hole Type            |                | Trial Pit / Trench       |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Status                 | Final                                                                                                        |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
| Sampling and In Situ Testing                                                      |                      |                |                          | Strata Details             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                              |                                                                                     | Groundwater  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
| Depth (m)                                                                         | Type                 | No.            | Test Results             | Depth (m)                  | Strata Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Depth (Thickness) (m)  | Level (m Datum)                                                                                              | Legend                                                                              | Water Strike | Backfill / Installation                                                             |                                                                                       |                                                                                       |                                                                                       |  |
| 0.20 - 0.30<br>0.20 - 0.50<br>0.20<br>0.30 - 0.40                                 | ES<br>LB<br>PID<br>D | 1<br>3<br>2    | < 0.1 ppm                | 1                          | MADE GROUND: (soft), brown, slightly sandy, gravelly clay. With occasional fragments of metal (<5x25 mm) (2%) and plastic (<6x40 mm) (1%). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, brick and concrete.<br>[MADE GROUND] [CLAY]<br>MADE GROUND: (firm), dark and light brown and grey, slightly sandy, gravelly clay with low cobble and boulder content (83%). With occasional fragments of wood debris (<80x120x800 mm) (D1) (5%), polystyrene (<40x50x70 mm) (5%), metal (<3x100x300 mm) (3%) and rebar (<20x20x600 mm) (2%). With rare fragments of ceramic tile (<2x20x20 mm) (<1%) and textile (<2x400x500 mm) (<1%). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, brick, and concrete. Cobbles (<65x139 mm) are angular of brick and concrete. Boulders (<200x400x700 mm) are angular of concrete.<br>[MADE GROUND] [WASTE, e.g. LANDFILL] | (0.15)<br>0.15         | 21.36                                                                                                        |  |              |  |                                                                                       |                                                                                       |                                                                                       |  |
| 1.20 - 1.30<br>1.20 - 1.30<br>1.20 - 1.50<br>1.20                                 | D<br>ES<br>LB<br>PID | 5<br>4<br>6    |                          |                            | < 0.1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
| 1.55 - 1.65<br>1.55 - 1.65<br>1.55 - 1.70<br>1.55                                 | D<br>ES<br>LB<br>PID | 8<br>7<br>9    |                          |                            | < 0.1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
| 2.50 - 2.60<br>2.50 - 2.60<br>2.50 - 2.70<br>2.50                                 | D<br>ES<br>LB<br>PID | 11<br>10<br>12 | < 0.1 ppm                | 3                          | MADE GROUND: (firm), brownish grey, sandy, gravelly clay with low cobble content (56%). With frequent fragments of wood debris (<50x80x300 mm) (D1) (20%) and plastic (<1x200x300 mm) (10%). With occasional fragments of metal (<5x20x40 mm) (5%), glass (<10x20x30 mm) (3%) and plastic sheet (<1x200x300 mm) (2%). With rare fragments of textile (<1x30x400 mm) (<1%), rubber hose (<30x30x500 mm) (<1%), cardboard (<5x20 mm) (<1%) and insulation material (possible fibreglass) (30x50x100 mm) (<1%). Sand is fine to coarse. Gravel is angular and subangular, fine to coarse of brick and concrete. Cobbles (<65x139 mm) are angular of brick and concrete.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]<br>Between 2.10 m and 2.35 m; (firm), grey clay.                                                                                                                                                                   | 1.55                   | 19.96                                                                                                        |  |              |  |                                                                                       |                                                                                       |                                                                                       |  |
| 3.50 - 3.60<br>3.50 - 3.60<br>3.50 - 3.70<br>3.50                                 | D<br>ES<br>LB<br>PID | 14<br>13<br>15 | < 0.1 ppm                | 4                          | MADE GROUND: (firm), dark brown and grey, slightly sandy, gravelly clay with low cobble content (87%). With some fragments of wood debris (80x120x800 mm) (D1) (10%). With occasional fragments of metal (<5x30x100 mm) (2%) and plastic (2x100x150 mm) (1%). Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of flint, brick, and concrete. Cobbles (<70x200 mm) are angular and subangular of brick and concrete. With frequent purple-black oily staining.<br>[MADE GROUND] [WASTE, e.g. LANDFILL]<br>End of Trial Pit / Trench at 3.80 m                                                                                                                                                                                                                                                                                                                                                            | 3.55<br>(0.25)<br>3.80 | 17.96<br><br>17.71                                                                                           |                                                                                     |              |                                                                                     |  |  |  |  |
|                                                                                   |                      |                |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
|                                                                                   |                      |                |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                              |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
| Notes                                                                             |                      |                |                          |                            | Pit Stability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | Plan                                                                                                         |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
| Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                      |                |                          |                            | Stable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        | 4.30 m<br><br>0.60 m  5 |                                                                                     |              |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |
| Template: FGSL/HBSI/FGSL Trial Pit.hbt/Config Fugro Rev5/05/12/2019/TS-AW         |                      |                |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | Print Date                                                                                                   |                                                                                     | 27/02/2020   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |

|                                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
|-------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------------|-------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|------------------------|----------------|------------------|-------------------|--------------|---------------|----------------------|--|--|
|    | Contract Name        |                       | HAL Airport Expansion    |                   |                 |                                                                                                                                                                                                                                                      |                         |               | Location ID            |                |                  |                   |              |               |                      |  |  |
|                                                                                     | Client               |                       | Heathrow Airport Limited |                   |                 |                                                                                                                                                                                                                                                      |                         |               | <b>HEP-TP-2558</b>     |                |                  |                   |              |               |                      |  |  |
|                                                                                     | Fugro Reference      |                       | G190012U                 |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
|                                                                                     | Coordinates (m)      |                       | E502812.57 N176172.06    |                   |                 | Ground Elevation (m Datum)                                                                                                                                                                                                                           |                         | 21.51         |                        | Sheet 1 of 1   |                  |                   |              |               |                      |  |  |
|                                                                                     | Hole Type            |                       | Trial Pit                |                   |                 |                                                                                                                                                                                                                                                      |                         |               | Status                 |                | Final            |                   |              |               |                      |  |  |
| Equipment                                                                           |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Depth From (m)                                                                      | Depth To (m)         | Hole Type             | Date From                | Date To           | Equipment       | Core Barrel                                                                                                                                                                                                                                          | Core Bit                | Drilling Crew | Logged By              | Remarks        |                  |                   |              |               |                      |  |  |
| 0.00                                                                                | 3.80                 | TP                    | 13/06/2019               | 13/06/2019        | CAT 432F        |                                                                                                                                                                                                                                                      |                         | JJ            | AA                     |                |                  |                   |              |               |                      |  |  |
| Progress                                                                            |                      |                       |                          |                   |                 | Rotary Details                                                                                                                                                                                                                                       |                         |               |                        |                | Core Details     |                   |              |               |                      |  |  |
| Date (dd/mm/yyyy)                                                                   | Time (hh:mm:ss)      | Hole Depth (m)        | Casing Depth (m)         | Water Depth (m)   | Weather         | Depth From (m)                                                                                                                                                                                                                                       | Depth To (m)            | Flush Type    | Flush Return (%)       | Flush Colour   | Run Time (hh:mm) | Depth From (m)    | Depth To (m) | Diameter (mm) |                      |  |  |
| 13/06/2019<br>13/06/2019                                                            | 08:00:00<br>12:00:00 | 0.00<br>3.80          |                          | 3.50              |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Hole and Casing                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Depth To (m)                                                                        |                      | Hole Diameter (mm)    |                          | Depth To (m)      |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               | Casing Diameter (mm) |  |  |
|                                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Chiselling / Slow Progress                                                          |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Depth From (m)                                                                      |                      | Depth To (m)          |                          | Duration (hh:mm)  |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               | Tool / Remark        |  |  |
|                                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Water Strike                                                                        |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               | Water Added          |  |  |
| Strike At (m)                                                                       | Rise To (m)          | Time Elapsed (mins)   | Casing Depth (m)         | Depth Sealed (m)  | Depth From (m)  |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               | Depth To (m)         |  |  |
| 3.80                                                                                | 3.50                 | 5                     |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Water Strike Remarks                                                                |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               | General Remarks      |  |  |
|                                                                                     |                      |                       |                          |                   |                 | A PAS128:2014 compliant survey was carried out for underground utility mapping prior to intrusive works and an inspection pit was excavated to 1.20 m. Services were not located. The trial pit was terminated at 3.80 m due to groundwater ingress. |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Installation                                                                        |                      |                       |                          |                   | Pipe            |                                                                                                                                                                                                                                                      |                         |               |                        | Backfill       |                  |                   |              |               |                      |  |  |
| Type                                                                                | ID                   | Response Zone Top (m) | Response Zone Base (m)   | Installation Date | ID              | Top Depth (m)                                                                                                                                                                                                                                        | Base Depth (m)          | Diameter (mm) | Type                   | Depth From (m) | Depth To (m)     | Backfill Material | Date         |               |                      |  |  |
|                                                                                     |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        | 0.00           | 3.80             | Arisings          | 13/06/2019   |               |                      |  |  |
| Notes                                                                               |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                |                  |                   |              |               |                      |  |  |
| Checked By                                                                          |                      | ROR                   |                          |                   | Elevation Datum |                                                                                                                                                                                                                                                      | Local Datum Not Defined |               | Grid Coordinate System |                | OSGB             |                   |              |               |                      |  |  |
| Template: FGSL/HBSI/FGSL BH Summary.hbt/Config Fugro Rev5/29/11/2019/TS+AW          |                      |                       |                          |                   |                 |                                                                                                                                                                                                                                                      |                         |               |                        |                | Print Date       |                   | 27/02/2020   |               |                      |  |  |

|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------------|------------------|-----------------|
|    | Contract Name   |                                            | HAL Airport Expansion                   |                                   |                                            | Location ID                                            |                  |                 |
|                                                                                     | Client          |                                            | Heathrow Airport Limited                |                                   |                                            | <b>HEP-TP-2558</b>                                     |                  |                 |
|                                                                                     | Fugro Reference |                                            | G190012U                                |                                   |                                            |                                                        |                  |                 |
|                                                                                     | Coordinates (m) |                                            | E502812.57 N176172.06                   | Ground Elevation (m Datum)        | 21.51                                      | Sheet 1 of 1                                           |                  |                 |
|                                                                                     | Hole Type       |                                            | Trial Pit                               |                                   |                                            | Status                                                 | Final            |                 |
| Standard Penetration Test Results                                                   |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Self Weight Penetration (mm)               | Test Result                             | Total Penetration (mm)            | Hammer Serial Number                       | Energy Ratio (%)                                       | Casing Depth (m) | Water Depth (m) |
|                                                                                     |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| In Situ Vane Test Results                                                           |                 |                                            |                                         | In Situ Hand Penetrometer Results |                                            | Volatile Headspace Testing by Photoionisation Detector |                  |                 |
| Test Depth (m)                                                                      | Test Type       | Undisturbed Undrained Shear Strength (kPa) | Residual Undrained Shear Strength (kPa) | Test Depth (m)                    | Undisturbed Undrained Shear Strength (kPa) | Test Depth (m)                                         | PID Result (ppm) |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            | 0.20                                                   | < 0.1            |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            | 1.20                                                   | < 0.1            |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            | 1.55                                                   | < 0.1            |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            | 2.50                                                   | < 0.1            |                 |
|                                                                                     |                 |                                            |                                         |                                   |                                            | 3.50                                                   | < 0.1            |                 |
| Notes                                                                               |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| - Abbreviations and results data defined on 'Notes on Exploratory Position Records' |                 |                                            |                                         |                                   |                                            |                                                        |                  |                 |
| Template: FGSL/HBSI/FGSL SPT Summary.hbt/Config Fugro Rev5/18/02/2019/TS            |                 |                                            |                                         |                                   |                                            | Print Date                                             | 27/02/2020       |                 |

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; Ramboll  
2nd Floor, the exchange, St John St,  
Chester  
CH1 1DA

## Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 27/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502415.59 N175859.22 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP01       | Location Type<br>TP | Ground Level<br>20.85m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill   | Water Strikes | Sample and In Situ Testing         |              |          | Depth (m)        | Level (m AoD) | Legend | Stratum Description                                                                                                                                                                                                               |   |
|------------|---------------|------------------------------------|--------------|----------|------------------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|            |               | Depth (m)                          | Type         | Results  |                  |               |        |                                                                                                                                                                                                                                   |   |
|            |               | 0.40 - 0.50<br>0.40 - 0.50<br>0.50 | ES<br>PID    | PID=0.00 | 0.30             | 20.55         |        | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint.(Topsoil)                                                                                           |   |
|            |               | 1.00                               | PID          | PID=0.00 | 1.00             | 19.85         |        | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint, occasionally brick and rarely chalk and glass.                                                                            | 1 |
|            |               | 1.50                               | PID          | PID=1.80 | 1.60             | 19.25         |        | MADE GROUND: Dark grey / black gravelly CLAY. Gravel is flint, brick, occasionally plastic, wood, wire, reinforcing bar, metal pipe. Occasional cobble of concrete (0.2 x 0.3).Lens of black ashy sandy and gravel from 1.4-1.5m. |   |
|            |               | 2.00                               | PID          | PID=2.40 |                  |               |        | MADE GROUND: Black / brown clayey gravel / gravelly CLAY. Frequent lens of waste material including concrete, brick, paper, wood.                                                                                                 | 2 |
|            |               | 2.50                               | PID          | PID=2.10 |                  |               |        |                                                                                                                                                                                                                                   |   |
|            |               |                                    |              |          | 3.00             | 17.85         |        | End of Excavation at 3.000m                                                                                                                                                                                                       | 3 |
|            |               |                                    |              |          |                  |               |        |                                                                                                                                                                                                                                   | 4 |
|            |               |                                    |              |          |                  |               |        |                                                                                                                                                                                                                                   | 5 |
| Dimensions |               | Trench Support and Comment         |              |          | Soakaway Testing |               |        |                                                                                                                                                                                                                                   |   |
| Pit Length | Pit Width     | Pit Stability                      | Shoring Used | Remarks  | Remarks          |               |        |                                                                                                                                                                                                                                   |   |
| 2.00       | 0.60          | Stable                             | None         |          |                  |               |        |                                                                                                                                                                                                                                   |   |

## Remarks

Notes: Abandoned at 2.5m due to difficult digging on concrete boulders.Groundwater: No groundwater encountered.Stability: StableShoring used: None

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2nd Floor, the exchange, St John St,  
Chester  
CH1 1DA

## Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 27/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502341.39 N175805.06 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP02       | Location Type<br>TP | Ground Level<br>20.40m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill | Water Strikes | Sample and In Situ Testing                     |                      |                          | Depth (m) | Level (m AoD)               | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                 |   |
|----------|---------------|------------------------------------------------|----------------------|--------------------------|-----------|-----------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|          |               | Depth (m)                                      | Type                 | Results                  |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               | 0.50 - 0.70<br>0.50 - 0.70<br>0.50             | ES<br>PID            | PID=0.00                 | 0.15      | 20.25                       |        | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint.(Topsoil)<br>MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint, occasionally brick and rare chalk, glass, wood, and plastic sheet/bag.           | 1 |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               | 1.10                                           | PID                  | PID=1.00                 | 1.00      | 19.40                       |        | MADE GROUND: Dark grey / black and brown gravelly CLAY. Gravel is flint, brick, occasionally plastic, wood, wire, reinforcing bar, metal pipe. Layer of cobble sized fragments of wood at 1.5m. Leachate odour.                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               | 1.70<br><br>1.90 - 2.10<br>1.90 - 2.10<br>2.00 | PID<br><br>ES<br>PID | PID=0.00<br><br>PID=0.00 | 1.80      | 18.60                       |        | MADE GROUND: Dark grey gravelly CLAY interbedded with waste material. Waste material comprises paper (including BA flight safety sheets) plastics (plastic fragments and one plastic bag), brick, glass, fabric, wood, plastic cups, rubber, metal wire, slate. Occasional cobble sized fragments of wood, plastic. Leachate odour. | 2 |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
| 2.50     | PID           | PID=4.00                                       | 2.70                 | 17.70                    |           | End of Excavation at 2.700m | 3      |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     | 4 |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        | 5                                                                                                                                                                                                                                                                                                                                   |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |
|          |               |                                                |                      |                          |           |                             |        |                                                                                                                                                                                                                                                                                                                                     |   |

| Dimensions |           | Trench Support and Comment |              |         | Soakaway Testing |  |
|------------|-----------|----------------------------|--------------|---------|------------------|--|
| Pit Length | Pit Width | Pit Stability              | Shoring Used | Remarks | Remarks          |  |
| 2.00       | 0.60      | Stable                     | None         |         |                  |  |

## Remarks

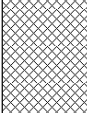
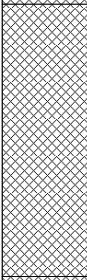
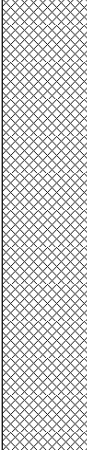
Notes: Groundwater: No groundwater encountered.Stability: StableShoring used: None

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## Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 27/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502265.55 N175757.58 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP03       | Location Type<br>TP | Ground Level<br>19.85m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

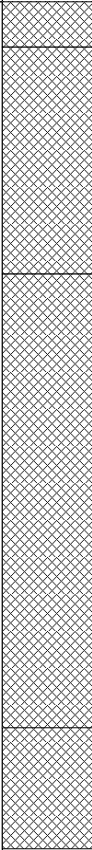
| Backfill                                                                           | Water Strikes                                                                       | Sample and In Situ Testing         |              |          | Depth (m) | Level (m AoD)    | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                      |   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|--------------|----------|-----------|------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                     | Depth (m)                          | Type         | Results  |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                          |   |
|  |  | 0.50                               | PID          | PID=0.00 | 0.20      | 19.65            |   | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint.(Topsoil)                                                                                                                                                                  | 1 |
|                                                                                    |                                                                                     | 1.00                               | PID          | PID=0.50 | 0.60      | 19.25            |   | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint, occasionally brick. Rare cobble sized fragment of concrete and reinforcing bar.                                                                                                                  |   |
|                                                                                    |                                                                                     | 1.50                               | PID          | PID=1.00 | 1.50      | 18.35            |   | MADE GROUND: Dark grey / black gravelly CLAY. Gravel is flint, brick, occasionally plastic, wood, wire, reinforcing bar, metal pipe.                                                                                                                                                                     |   |
|                                                                                    |                                                                                     | 2.00 - 2.30<br>2.00 - 2.30<br>2.20 | ES<br>PID    | PID=1.60 |           |                  |  | MADE GROUND: Dark grey gravelly CLAY interbedded with waste material. Waste material comprises plastic bags, paper, plastics, brick, glass, fabric, carpet, tin cans, wood, plastic cups, metal spoons/forks, rubber, wire. Occasional cobble sized fragments of tin can, wood, plastic. Leachate odour. | 2 |
|                                                                                    |                                                                                     | 2.90                               | PID          | PID=1.60 | 3.00      | 16.85            |                                                                                    | End of Excavation at 3.000m                                                                                                                                                                                                                                                                              | 3 |
|                                                                                    |                                                                                     |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                          | 4 |
|                                                                                    |                                                                                     |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                          | 5 |
| Dimensions                                                                         |                                                                                     | Trench Support and Comment         |              |          |           | Soakaway Testing |                                                                                    |                                                                                                                                                                                                                                                                                                          |   |
| Pit Length                                                                         | Pit Width                                                                           | Pit Stability                      | Shoring Used | Remarks  |           | Remarks          |                                                                                    |                                                                                                                                                                                                                                                                                                          |   |
| 2.00                                                                               | 0.60                                                                                | Stable                             | None         |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                          |   |

## Remarks

Notes: Groundwater: Water ingress at 2.8mbgl.Stability: StableShoring used: None



## Trial Pit Log

|                                                                                                                                |                                                                                     |                                    |                      |                                       |                             |                  |                                                                                    |                                                                                                                                                                                                                      |  |                                                                                      |  |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|----------------------|---------------------------------------|-----------------------------|------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|
| Project Name: Poyle, Heathrow                                                                                                  |                                                                                     |                                    |                      | Client: Aberdeen Standard Investments |                             |                  | Date: 27/07/2021                                                                   |                                                                                                                                                                                                                      |  |                                                                                      |  |
| Location: Heathrow                                                                                                             |                                                                                     |                                    |                      | Contractor: Ramboll                   |                             |                  | Co-ords: E502228.89 N175795.84                                                     |                                                                                                                                                                                                                      |  |                                                                                      |  |
| Project No. : 1620012495                                                                                                       |                                                                                     |                                    |                      | Trial Pit Crew Name:                  |                             |                  | Equipment: JCB 3CX                                                                 |                                                                                                                                                                                                                      |  |                                                                                      |  |
| Location Number<br>TP04                                                                                                        |                                                                                     | Location Type<br>TP                |                      | Ground Level<br>19.78m AoD            |                             | Logged By<br>DL  |                                                                                    | Scale<br>1:25                                                                                                                                                                                                        |  | Page Number<br>1 of 1                                                                |  |
| Backfill                                                                                                                       | Water<br>Strikes                                                                    | Sample and In Situ Testing         |                      |                                       | Depth<br>(m)                | Level<br>(m AoD) | Legend                                                                             | Stratum Description                                                                                                                                                                                                  |  |                                                                                      |  |
|                                                                                                                                |                                                                                     | Depth (m)                          | Type                 | Results                               |                             |                  |                                                                                    |                                                                                                                                                                                                                      |  |                                                                                      |  |
|                                              |  | 0.50                               | PID                  | PID=0.00                              | 0.15                        | 19.63            |  | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint.(Topsoil)                                                                              |  |  |  |
|                                                                                                                                |                                                                                     | 1.00 - 1.20<br>1.00 - 1.20<br>1.00 | ES<br>PID            | PID=0.00                              | 0.90                        | 18.88            |                                                                                    | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint, occasionally brick.                                                                                          |  |                                                                                      |  |
|                                                                                                                                |                                                                                     | 2.00                               | PID                  | PID=0.00                              | 2.40                        | 17.38            |                                                                                    | MADE GROUND: Dark greenish brown, grey and black gravelly CLAY. Gravel is flint, occasionally brick. Occasional to rare gravel to cobble sized fragments of concrete, plastic, wire, tile, ceramics. Leachate odour. |  |                                                                                      |  |
|                                                                                                                                |                                                                                     | 2.40 - 2.60<br>2.40 - 2.60         | ES                   |                                       | 2.80                        | 16.98            |                                                                                    | MADE GROUND: Wet black sandy gravelly clayey SILT. Gravel is fine to coarse brick, tile, bottle tops (various sizes and shapes) wood, rare plastic cups, plastic sheet/bags. Strong leachate odour.                  |  |                                                                                      |  |
|                                                                                                                                |                                                                                     | 2.80                               | PID                  | PID=1.00                              | End of Excavation at 2.800m |                  |                                                                                    |                                                                                                                                                                                                                      |  |                                                                                      |  |
| Dimensions                                                                                                                     |                                                                                     | Trench Support and Comment         |                      |                                       |                             | Soakaway Testing |                                                                                    |                                                                                                                                                                                                                      |  |                                                                                      |  |
| Pit Length<br>2.00                                                                                                             | Pit Width<br>0.60                                                                   | Pit Stability<br>Stable            | Shoring Used<br>None | Remarks                               |                             | Remarks          |                                                                                    |                                                                                                                                                                                                                      |  |                                                                                      |  |
| Remarks                                                                                                                        |                                                                                     |                                    |                      |                                       |                             |                  |                                                                                    |                                                                                                                                                                                                                      |  |                                                                                      |  |
| Notes: Abandoned at 2.8m due to rapid water ingress.Groundwater: Water standing at 2.6mbgl.Stability: StableShoring used: None |                                                                                     |                                    |                      |                                       |                             |                  |                                                                                    |                                                                                                                                                                                                                      |  |                                                                                      |  |

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## Trial Pit Log

|                                                                                                                                                    |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------|--------------|---------------------------------------|--------------|------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|---|
| Project Name: Poyle, Heathrow                                                                                                                      |                  |                                    |              | Client: Aberdeen Standard Investments |              |                  | Date: 27/07/2021               |                                                                                                                                                                                                                                                                         |  |                       |   |
| Location: Heathrow                                                                                                                                 |                  |                                    |              | Contractor: Ramboll                   |              |                  | Co-ords: E502434.23 N175938.04 |                                                                                                                                                                                                                                                                         |  |                       |   |
| Project No. : 1620012495                                                                                                                           |                  |                                    |              | Trial Pit Crew Name:                  |              |                  | Equipment: JCB 3CX             |                                                                                                                                                                                                                                                                         |  |                       |   |
| Location Number<br>TP05                                                                                                                            |                  | Location Type<br>TP                |              | Ground Level<br>21.20m AoD            |              | Logged By<br>DL  |                                | Scale<br>1:25                                                                                                                                                                                                                                                           |  | Page Number<br>1 of 1 |   |
| Backfill                                                                                                                                           | Water<br>Strikes | Sample and In Situ Testing         |              |                                       | Depth<br>(m) | Level<br>(m AoD) | Legend                         | Stratum Description                                                                                                                                                                                                                                                     |  |                       |   |
|                                                                                                                                                    |                  | Depth (m)                          | Type         | Results                               |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
|                                                                                                                                                    |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
|                                                                                                                                                    |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
|                                                                                                                                                    |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
|                                                                                                                                                    |                  | 0.50                               | PID          | PID=0.00                              | 0.20         | 21.00            |                                | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with occasional brick fragment.(Topsoil)                                                                                                  |  |                       |   |
|                                                                                                                                                    |                  | 1.00                               | PID          | PID=0.00                              | 0.90         | 20.30            |                                | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint, and frequent brick.                                                                                                                                             |  | 1                     |   |
|                                                                                                                                                    |                  | 1.50 - 1.70<br>1.50 - 1.70<br>1.70 | ES<br>PID    | PID=0.00                              |              |                  |                                | MADE GROUND: grey / greenish brown gravelly CLAY. Gravel is flint, occasionally glass, brick. Occasional cobble of brick, concrete and rarely wood.Refusal on large concrete boulder at 1.9m (>1.0m x 0.5m) possibly cylindrical).Slight leachate-type / organic odour. |  |                       |   |
|                                                                                                                                                    |                  |                                    |              |                                       | 1.90         | 19.30            |                                | End of Excavation at 1.900m                                                                                                                                                                                                                                             |  | 2                     |   |
|                                                                                                                                                    |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       | 3 |
|                                                                                                                                                    |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       | 4 |
|                                                                                                                                                    |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       | 5 |
| Dimensions                                                                                                                                         |                  | Trench Support and Comment         |              |                                       |              | Soakaway Testing |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
| Pit Length                                                                                                                                         | Pit Width        | Pit Stability                      | Shoring Used | Remarks                               |              | Remarks          |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
| 2.00                                                                                                                                               | 0.60             | Stable                             | None         |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
| Remarks                                                                                                                                            |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       |   |
| Notes: refusal at 1.9mbgl due to large concrete boulder (>1.0m x 0.5m).Groundwater: No groundwater encountered.Stability: StableShoring used: None |                  |                                    |              |                                       |              |                  |                                |                                                                                                                                                                                                                                                                         |  |                       |   |



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# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 27/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502439.01 N176012.87 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP06       | Location Type<br>TP | Ground Level<br>21.15m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill   | Water Strikes | Sample and In Situ Testing |              |          | Depth (m)        | Level (m AoD) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
|------------|---------------|----------------------------|--------------|----------|------------------|---------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|            |               | Depth (m)                  | Type         | Results  |                  |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
|            |               | 0.30 - 0.50<br>0.30 - 0.50 | ES           |          | 0.20             | 20.95         |        | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with occasional brick fragment.(Topsoil)<br>MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint, and frequent brick.                                                                                                                                                                                                         | 1 |
|            |               | 1.00                       | PID          | PID=0.00 | 0.90             | 20.25         |        | MADE GROUND: grey / greenish brown gravelly CLAY. Gravel is flint, occasionally glass, brick. Occasional cobble of brick and concrete. Slight leachate-type / organic odour.                                                                                                                                                                                                                                                                                                                                  |   |
|            |               | 1.80                       | PID          | PID=3.00 | 1.50             | 19.65         |        | MADE GROUND: Grey / black / dark brown gravelly CLAY with frequent inclusions of waste material. Waste material comprises frequent wood (fence panels, branches, roots); Occasional gravel to cobble sized fragments of plastic bag, disposable plastic cups, glass and concrete. Rare cobble size fragments of metal swarf, metal sheeting, wool, fabric, glass, plastic pipe, and photographic film. One cutting disc, boulder sized fragment of wire fencing. Concrete boulder at 2.9mbgl. Leachate odour. |   |
|            |               | 2.20 - 2.50<br>2.20 - 2.50 | ES           |          |                  |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 |
|            |               | 2.50                       | PID          | PID=3.00 |                  |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
|            |               | 2.90                       | PID          | PID=2.00 | 2.90             | 18.25         |        | End of Excavation at 2.900m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
|            |               |                            |              |          |                  |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3 |
|            |               |                            |              |          |                  |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4 |
|            |               |                            |              |          |                  |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 |
| Dimensions |               | Trench Support and Comment |              |          | Soakaway Testing |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
| Pit Length | Pit Width     | Pit Stability              | Shoring Used | Remarks  | Remarks          |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
| 2.00       | 0.60          | Stable                     | None         |          |                  |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |

## Remarks

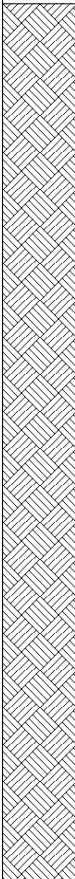
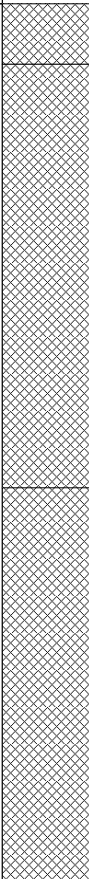
Notes: refusal at 2.9mbgl due to large concrete boulder (>1.0m x 0.5m).Groundwater: No groundwater encountered.Stability: StableShoring used: None



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# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 27/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502476.47 N176072.24 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP07       | Location Type<br>TP | Ground Level<br>21.54m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                           | Water Strikes | Sample and In Situ Testing         |              |          | Depth (m) | Level (m AoD)    | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                                                                            |   |
|------------------------------------------------------------------------------------|---------------|------------------------------------|--------------|----------|-----------|------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                          | Type         | Results  |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |   |
|  |               | 0.50                               | PID          | PID=0.00 | 0.20      | 21.34            |  | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with occasional brick and chalk fragments.(Topsoil)<br>MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint, occasionally brick and chalk. Rare brick cobble.                  | 1 |
|                                                                                    |               | 1.20                               | PID          | PID=0.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |   |
|                                                                                    |               | 1.60                               | PID          | PID=0.00 | 1.60      | 19.94            |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |   |
|                                                                                    |               | 2.00 - 2.30<br>2.00 - 2.30<br>2.00 | ES<br>PID    | PID=0.00 |           |                  |                                                                                    | MADE GROUND: Black / dark greyish greenish brown sandy clayey GRAVEL with much waste material including frequent wood, plastic bags, PFA, occasional cobble sized fragments of bricks, concrete, paper cups. Occasional paper, plastic bottles and glass. Rare plastic trays (0.2 x 0.4m), plastic cups, wire, string. Whole car tyre at 2.2m. Leachate odour. | 2 |
|                                                                                    |               | 2.70                               | PID          | PID=0.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |   |
|                                                                                    |               |                                    |              |          | 2.90      | 18.64            |                                                                                    | End of Excavation at 2.900m                                                                                                                                                                                                                                                                                                                                    | 3 |
|                                                                                    |               |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                | 4 |
|                                                                                    |               |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                | 5 |
| Dimensions                                                                         |               | Trench Support and Comment         |              |          |           | Soakaway Testing |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |   |
| Pit Length                                                                         | Pit Width     | Pit Stability                      | Shoring Used | Remarks  |           | Remarks          |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |   |
| 2.00                                                                               | 0.60          | Stable                             | None         |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |   |

## Remarks

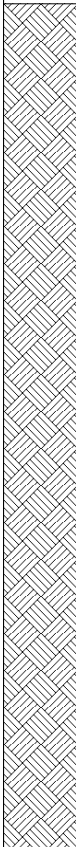
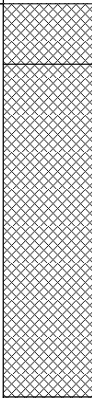
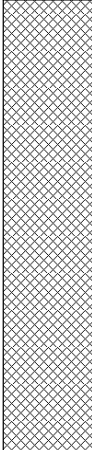
Notes: refusal at 2.9mbgl due to difficult digging.Groundwater: No groundwater encountered.Stability: StableShoring used: None



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# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 27/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502497.63 N176029.81 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP08       | Location Type<br>TP | Ground Level<br>22.06m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                           | Water Strikes | Sample and In Situ Testing         |              |          | Depth (m) | Level (m AoD)    | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                            |   |
|------------------------------------------------------------------------------------|---------------|------------------------------------|--------------|----------|-----------|------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                          | Type         | Results  |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
|  |               |                                    |              |          | 0.20      | 21.86            |   | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with occasional brick fragment.(Topsoil)                                                                                                                                                                                                                                                         | 1 |
|                                                                                    |               | 0.50                               | PID          | PID=0.00 |           |                  |                                                                                    | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint. Occasional gravel to cobble sized fragment of brick and concrete.                                                                                                                                                                                                                                                      |   |
|                                                                                    |               | 1.00                               | PID          | PID=0.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
|                                                                                    |               | 1.30                               |              |          | 1.30      | 20.76            |  | MADE GROUND: Black / dark greyish greenish brown CLAY with frequent lenses of black waste material. Waste material includes frequent cobble sized fragment of wood (plywood, plant material and wood sheets), brick. Occasional plastic bags. Rare cobble sized fragment of shredded paper, shredded plastic, rubber, metal pipe, clay tile, metal and plastic cutlery, glass. One car hubcap and type bottle. Leachate odour. | 2 |
|                                                                                    |               | 1.50                               | PID          | PID=0.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
|                                                                                    |               | 2.00                               | PID          | PID=4.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
|                                                                                    |               | 2.40 - 2.60<br>2.40 - 2.60<br>2.50 | ES<br>PID    | PID=4.50 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
|                                                                                    |               |                                    |              |          | 2.80      | 19.26            |                                                                                    | End of Excavation at 2.800m                                                                                                                                                                                                                                                                                                                                                                                                    | 3 |
|                                                                                    |               |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 |
|                                                                                    |               |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                | 5 |
| Dimensions                                                                         |               | Trench Support and Comment         |              |          |           | Soakaway Testing |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| Pit Length                                                                         | Pit Width     | Pit Stability                      | Shoring Used | Remarks  |           | Remarks          |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 2.00                                                                               | 0.60          | Stable                             | None         |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |   |

## Remarks

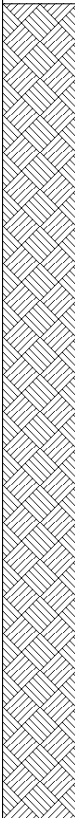
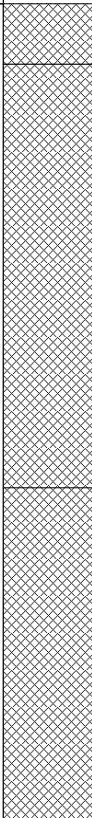
Notes:Groundwater: No groundwater encountered.Stability: StableShoring used: None



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# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 27/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502508.27 N175946.02 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP09       | Location Type<br>TP | Ground Level<br>21.63m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                           | Water Strikes | Sample and In Situ Testing  |                            |          | Depth (m) | Level (m AoD) | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                            |   |   |  |
|------------------------------------------------------------------------------------|---------------|-----------------------------|----------------------------|----------|-----------|---------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|--|
|                                                                                    |               | Depth (m)                   | Type                       | Results  |           |               |                                                                                    |                                                                                                                                                                                                                                                                                                                |   |   |  |
|  |               |                             |                            |          | 0.20      | 21.43         |  | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with occasional brick fragment.(Topsoil)                                                                                                                                         | 1 |   |  |
|                                                                                    |               | 0.50                        | PID                        | PID=0.00 |           |               |                                                                                    | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint. Occasional gravel to cobble sized fragment of brick and concrete, rarely ceramics, clay tile and plastic.                                                                                              |   |   |  |
|                                                                                    |               | 1.20                        | PID                        | PID=0.00 |           |               |                                                                                    |                                                                                                                                                                                                                                                                                                                |   |   |  |
|                                                                                    |               | 1.40 - 1.50<br>1.40 - 1.50  | ES                         |          |           |               |                                                                                    |                                                                                                                                                                                                                                                                                                                |   |   |  |
|                                                                                    |               | 1.60                        | PID                        | PID=0.00 | 1.60      | 20.03         |                                                                                    |                                                                                                                                                                                                                                                                                                                |   |   |  |
|                                                                                    |               | 2.00                        | PID                        | PID=0.00 |           |               |                                                                                    | MADE GROUND: Black / dark greyish greenish brown CLAY with frequent lenses of waste material. Waste material includes frequent wood (plywood, plant fragments and branches), brick and concrete. Rare glass (including whole bottle), plastic, wire, plastic sack, fabric. Damp in places with leachate odour. |   |   |  |
|                                                                                    |               | 2.50 - 2.70<br>2.50 - 2.70  | ES                         |          |           |               |                                                                                    |                                                                                                                                                                                                                                                                                                                |   |   |  |
|                                                                                    |               | 2.70                        | PID                        | PID=0.00 | 2.70      | 18.93         |                                                                                    |                                                                                                                                                                                                                                                                                                                |   |   |  |
|                                                                                    |               | End of Excavation at 2.700m |                            |          |           |               |                                                                                    |                                                                                                                                                                                                                                                                                                                |   |   |  |
|                                                                                    |               |                             |                            |          |           |               |                                                                                    |                                                                                                                                                                                                                                                                                                                |   | 3 |  |
|                                                                                    |               |                             |                            |          |           |               | 4                                                                                  |                                                                                                                                                                                                                                                                                                                |   |   |  |
|                                                                                    |               |                             |                            |          |           |               | 5                                                                                  |                                                                                                                                                                                                                                                                                                                |   |   |  |
| Dimensions                                                                         |               |                             | Trench Support and Comment |          |           |               | Soakaway Testing                                                                   |                                                                                                                                                                                                                                                                                                                |   |   |  |
| Pit Length                                                                         | Pit Width     | Pit Stability               | Shoring Used               | Remarks  |           |               | Remarks                                                                            |                                                                                                                                                                                                                                                                                                                |   |   |  |
| 2.00                                                                               | 0.60          | Stable                      | None                       |          |           |               |                                                                                    |                                                                                                                                                                                                                                                                                                                |   |   |  |

## Remarks

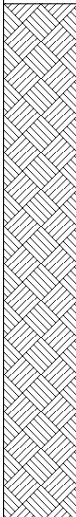
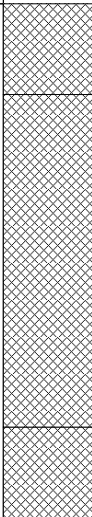
Notes: refusal at 2.7mbgl due to difficult digging on concrete cobbles/boulder.Groundwater: No groundwater encountered.Stability: StableShoring used: None



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# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 26/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502649.16 N176110.95 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP10       | Location Type<br>TP | Ground Level<br>21.80m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                          | Water Strikes | Sample and In Situ Testing         |              |          | Depth (m) | Level (m AoD)    | Legend                                                                            | Stratum Description                                                                                                                                                                                            |   |
|-----------------------------------------------------------------------------------|---------------|------------------------------------|--------------|----------|-----------|------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                   |               | Depth (m)                          | Type         | Results  |           |                  |                                                                                   |                                                                                                                                                                                                                |   |
|  |               | 0.50 - 0.80<br>0.50 - 0.80<br>0.50 | ES<br>PID    | PID=0.00 | 0.30      | 21.50            |  | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to coarse flint with rare chalk.(Topsoil)                                                        | 1 |
|                                                                                   |               |                                    | PID          | PID=0.00 |           |                  |                                                                                   |                                                                                                                                                                                                                |   |
|                                                                                   |               | 1.40 - 1.70<br>1.40 - 1.70<br>1.50 | ES<br>PID    | PID=0.00 | 1.40      | 20.40            |  | MADE GROUND: Grey / black gravelly clayey / silty SAND. Gravel is asbestos cement sheet and brick. Abundant cobble sized fragments of asbestos cement sheet. Occasionally plastics.Strong leachate-type odour. |   |
|                                                                                   |               |                                    |              |          | 1.70      | 20.10            |                                                                                   | End of Excavation at 1.700m                                                                                                                                                                                    |   |
|                                                                                   |               |                                    |              |          |           |                  |                                                                                   |                                                                                                                                                                                                                | 2 |
|                                                                                   |               |                                    |              |          |           |                  |                                                                                   | 3                                                                                                                                                                                                              |   |
|                                                                                   |               |                                    |              |          |           |                  |                                                                                   | 4                                                                                                                                                                                                              |   |
|                                                                                   |               |                                    |              |          |           |                  |                                                                                   | 5                                                                                                                                                                                                              |   |
| Dimensions                                                                        |               | Trench Support and Comment         |              |          |           | Soakaway Testing |                                                                                   |                                                                                                                                                                                                                |   |
| Pit Length                                                                        | Pit Width     | Pit Stability                      | Shoring Used | Remarks  |           |                  |                                                                                   |                                                                                                                                                                                                                |   |
| 2.00                                                                              | 0.60          | Stable                             | None         |          |           |                  |                                                                                   |                                                                                                                                                                                                                |   |

## Remarks

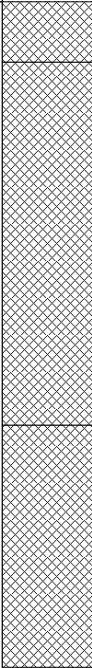
Notes: Abandoned at 1.7mbgl due to high proportion of asbestos in arisings from 1.7mbgl. Material backfilled in reverse order (i.e. asbestos materials in base of pit).Groundwater: No groundwater ingressStability: StableShoring used: None



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# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 26/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502673.21 N176032.59 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP11       | Location Type<br>TP | Ground Level<br>21.63m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                            | Water Strikes | Sample and In Situ Testing |      |          | Depth (m) | Level (m AoD) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                         |   |
|-------------------------------------------------------------------------------------|---------------|----------------------------|------|----------|-----------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                     |               | Depth (m)                  | Type | Results  |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|   |               | 0.20                       |      |          | 0.20      | 21.43         |   | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint.(Topsoil)                                                                                                                                                                     | 1 |
|                                                                                     |               | 0.50                       | PID  | PID=0.00 |           |               |                                                                                     | MADE GROUND: Brown sandy gravelly CLAY. Gravel is predominantly flint with rare chalk and brick fragments. Occasional to frequent brick cobbles and occasional cobble sized fragment of wood and concrete.                                                                                                  |   |
|                                                                                     |               | 0.60 - 0.90                | ES   |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               | 0.60 - 0.90                |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               | 0.90                       | PID  | PID=0.30 |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|  |               | 1.30                       | PID  | PID=0.00 | 1.40      | 20.23         |  | MADE GROUND: Black and grey gravelly sandy silty CLAY with frequent lenses of sandy gravel with gravel to cobble sized fragments of waste materials including: plastic, rubber pipe, metal (wire), ceramics, clayware, wood, glass. Occasional boulder sized fragment of wood and concrete. Leachate odour. | 2 |
|                                                                                     |               | 1.80 - 2.00                | ES   |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               | 1.80 - 2.00                | PID  | PID=0.00 |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               | 1.90                       |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          | 2.20      | 19.43         |                                                                                     | End of Excavation at 2.200m                                                                                                                                                                                                                                                                                 |   |
|  |               |                            |      |          |           |               |  |                                                                                                                                                                                                                                                                                                             | 3 |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|  |               |                            |      |          |           |               |  |                                                                                                                                                                                                                                                                                                             | 4 |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|  |               |                            |      |          |           |               |  |                                                                                                                                                                                                                                                                                                             | 5 |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |
|                                                                                     |               |                            |      |          |           |               |                                                                                     |                                                                                                                                                                                                                                                                                                             |   |

| Dimensions |           | Trench Support and Comment |              |         | Soakaway Testing |  |
|------------|-----------|----------------------------|--------------|---------|------------------|--|
| Pit Length | Pit Width | Pit Stability              | Shoring Used | Remarks | Remarks          |  |
| 2.00       | 0.60      | Stable                     | None         |         |                  |  |

## Remarks

Notes: Abandoned at 2.2m due to concrete boulder obstruction. Groundwater: No groundwater ingress Stability: Stable Shoring used: None

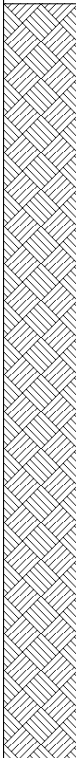
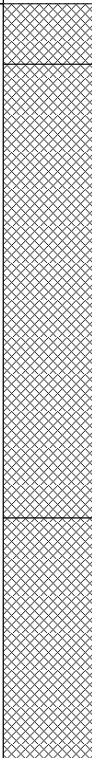




; Ramboll  
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CH1 1DA

# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 28/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502686.00 N175967.52 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP12       | Location Type<br>TP | Ground Level<br>21.43m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                           | Water Strikes | Sample and In Situ Testing         |              |          | Depth (m) | Level (m AoD)    | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                                |   |
|------------------------------------------------------------------------------------|---------------|------------------------------------|--------------|----------|-----------|------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                          | Type         | Results  |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                    |   |
|  |               |                                    |              |          | 0.20      | 21.23            |  | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with occasional brick fragment. (Topsoil)                                                                                                                                            | 1 |
|                                                                                    |               | 0.50                               | PID          | PID=0.00 |           |                  |                                                                                    | MADE GROUND: Brown sandy gravelly CLAY. Gravel is fine to coarse flint, occasionally brick and rarely chalk. Rare cobble sized fragments of metal pipe, PFA and reinforcing bar. Tyre at 0.4mbgl.                                                                                                                  |   |
|                                                                                    |               | 1.00                               | PID          | PID=0.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                    |   |
|                                                                                    |               | 1.40 - 1.70<br>1.40 - 1.70<br>1.50 | ES<br>PID    | PID=0.00 | 1.70      | 19.73            |                                                                                    | MADE GROUND: Dark brown sandy clayey GRAVEL of natural stone (predominantly flint), brick, concrete with frequent gravel to cobble sized fragments of wood. Frequent plastic bags. Occasional concrete boulder (up to 0.4m x 0.3m). Rare pipe, clay tile, vinyl flooring tile, polystyrene. Slight leachate odour. |   |
|                                                                                    |               | 2.00 - 2.30<br>2.00 - 2.30<br>2.00 | ES<br>PID    | PID=0.00 | 2.50      | 18.93            |                                                                                    |                                                                                                                                                                                                                                                                                                                    |   |
|                                                                                    |               | 2.60                               | PID          | PID=0.00 |           |                  |                                                                                    | End of Excavation at 2.500m                                                                                                                                                                                                                                                                                        | 3 |
|                                                                                    |               |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                    | 4 |
|                                                                                    |               |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                    | 5 |
| Dimensions                                                                         |               | Trench Support and Comment         |              |          |           | Soakaway Testing |                                                                                    |                                                                                                                                                                                                                                                                                                                    |   |
| Pit Length                                                                         | Pit Width     | Pit Stability                      | Shoring Used | Remarks  |           | Remarks          |                                                                                    |                                                                                                                                                                                                                                                                                                                    |   |
| 2.00                                                                               | 0.60          | Stable                             | None         |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                                    |   |

## Remarks

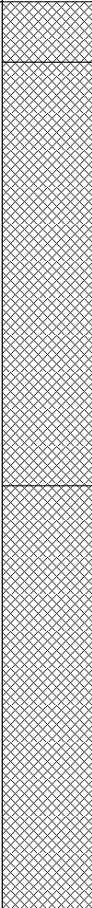
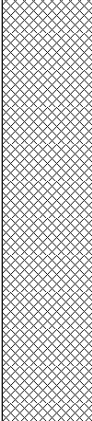
Notes: Refusal due to concrete boulder at 2.5mbgl.Groundwater: No groundwater encountered.Stability: StableShoring used: None

RAMBOLL

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Chester  
CH1 1DA

## Trial Pit Log

|                               |                     |                            |                                       |               |                                |
|-------------------------------|---------------------|----------------------------|---------------------------------------|---------------|--------------------------------|
| Project Name: Poyle, Heathrow |                     |                            | Client: Aberdeen Standard Investments |               | Date: 28/07/2021               |
| Location: Heathrow            |                     |                            | Contractor: Ramboll                   |               | Co-ords: E502593.15 N175955.54 |
| Project No. : 1620012495      |                     |                            | Trial Pit Crew Name:                  |               | Equipment: JCB 3CX             |
| Location Number<br>TP13       | Location Type<br>TP | Ground Level<br>21.88m AoD | Logged By<br>DL                       | Scale<br>1:25 | Page Number<br>1 of 1          |

| Backfill                                                                           | Water Strikes | Sample and In Situ Testing |              |          | Depth (m) | Level (m AoD)    | Legend                                                                             | Stratum Description                                                                                                                                                                                                               |   |
|------------------------------------------------------------------------------------|---------------|----------------------------|--------------|----------|-----------|------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                  | Type         | Results  |           |                  |                                                                                    |                                                                                                                                                                                                                                   |   |
|  |               | 0.20                       |              |          | 0.20      | 21.68            |  | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with occasional brick fragment.(Topsoil)                                                            | 1 |
|                                                                                    |               | 0.50                       | PID          | PID=0.00 |           |                  |                                                                                    | MADE GROUND: Brown silty sandy fine to coarse flint GRAVEL Occasional cobble sized fragments of brick and rare gravel to cobble sized fragments of plastic, rubber. Slight leachate odour.                                        |   |
|                                                                                    |               | 1.00                       | PID          | PID=0.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                   |   |
|                                                                                    |               | 1.50                       | PID          | PID=0.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                   |   |
|                                                                                    |               | 1.60                       |              |          | 1.60      | 20.28            |                                                                                    | MADE GROUND: Black sandy clayey GRAVEL with much waste material including frequent cobble sized fragments of wood, occasionally wire, plastic sheet, metal sheet. Occasional concrete boulder (up to 0.5 x 0.3m). Leachate odour. |   |
|                                                                                    |               | 2.20                       | PID          | PID=0.50 |           |                  |  |                                                                                                                                                                                                                                   | 2 |
|                                                                                    |               | 2.50 - 2.80<br>2.50 - 2.80 | ES           |          |           |                  |                                                                                    |                                                                                                                                                                                                                                   |   |
|                                                                                    |               | 2.90                       | PID          | PID=0.80 |           |                  |                                                                                    |                                                                                                                                                                                                                                   |   |
|                                                                                    |               | 3.00                       |              |          | 3.00      | 18.88            |                                                                                    | End of Excavation at 3.000m                                                                                                                                                                                                       | 3 |
|                                                                                    |               |                            |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                   | 4 |
|                                                                                    |               |                            |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                   | 5 |
| Dimensions                                                                         |               | Trench Support and Comment |              |          |           | Soakaway Testing |                                                                                    |                                                                                                                                                                                                                                   |   |
| Pit Length                                                                         | Pit Width     | Pit Stability              | Shoring Used | Remarks  |           | Remarks          |                                                                                    |                                                                                                                                                                                                                                   |   |
| 2.00                                                                               | 0.60          | Stable                     | None         |          |           |                  |                                                                                    |                                                                                                                                                                                                                                   |   |

## Remarks

Notes: Groundwater: No groundwater encountered.Stability: StableShoring used: None



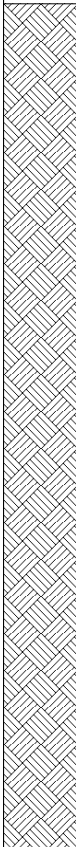
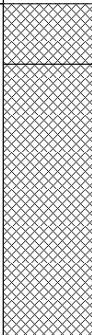
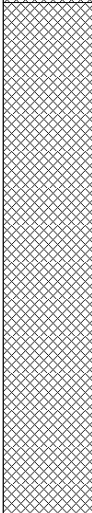




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# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 28/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502579.74 N176233.94 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP17       | Location Type<br>TP | Ground Level<br>21.93m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                           | Water Strikes | Sample and In Situ Testing         |              |          | Depth (m) | Level (m AoD)    | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                  |   |
|------------------------------------------------------------------------------------|---------------|------------------------------------|--------------|----------|-----------|------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                          | Type         | Results  |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                      |   |
|  |               |                                    |              |          | 0.20      | 21.73            |   | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with occasional brick fragment. (Topsoil)                                                                                                                              | 1 |
|                                                                                    |               | 0.50                               | PID          | PID=0.00 |           |                  |                                                                                    | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub-angular to rounded flint. Rare fine to coarse gravel of brick and flint.                                                                                                                                               |   |
|                                                                                    |               | 0.90 - 1.00<br>0.90 - 1.00<br>1.00 | ES<br>PID    | PID=0.00 | 1.10      | 20.83            |  | MADE GROUND: Grey black and dark brown sandy gravelly SILT, with lenses of silty ashy gravelly sand and clay. Occasional gravel to cobble sized fragments of brick, concrete and wood. Rare gravel sized fragments of ceramics, glass, rubber, plastics. Rare cobble of rubber seal. Leachate odour. |   |
|                                                                                    |               | 1.50                               | PID          | PID=1.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                      |   |
|                                                                                    |               | 2.00                               | PID          | PID=0.00 |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                      |   |
|                                                                                    |               | 2.60 - 2.80<br>2.60 - 2.80<br>2.60 | ES<br>PID    | PID=0.00 | 2.80      | 19.13            |                                                                                    | End of Excavation at 2.800m                                                                                                                                                                                                                                                                          | 3 |
|                                                                                    |               |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                      | 4 |
|                                                                                    |               |                                    |              |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                      | 5 |
| Dimensions                                                                         |               | Trench Support and Comment         |              |          |           | Soakaway Testing |                                                                                    |                                                                                                                                                                                                                                                                                                      |   |
| Pit Length                                                                         | Pit Width     | Pit Stability                      | Shoring Used | Remarks  |           | Remarks          |                                                                                    |                                                                                                                                                                                                                                                                                                      |   |
| 2.00                                                                               | 0.60          | Stable                             | None         |          |           |                  |                                                                                    |                                                                                                                                                                                                                                                                                                      |   |

## Remarks

Notes:Groundwater: No groundwater encountered.Stability: StableShoring used: None

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## Trial Pit Log

|                               |                  |                                    |              |                                       |              |                  |        |                                                                                                                                                                                                                                                                                                                                                                        |   |                       |  |
|-------------------------------|------------------|------------------------------------|--------------|---------------------------------------|--------------|------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------|--|
| Project Name: Poyle, Heathrow |                  |                                    |              | Client: Aberdeen Standard Investments |              |                  |        | Date: 26/07/2021                                                                                                                                                                                                                                                                                                                                                       |   |                       |  |
| Location: Heathrow            |                  |                                    |              | Contractor: Ramboll                   |              |                  |        | Co-ords: E502572.76 N176294.98                                                                                                                                                                                                                                                                                                                                         |   |                       |  |
| Project No. : 1620012495      |                  |                                    |              | Trial Pit Crew Name:                  |              |                  |        | Equipment: JCB 3CX                                                                                                                                                                                                                                                                                                                                                     |   |                       |  |
| Location Number<br>TP18       |                  | Location Type<br>TP                |              | Ground Level<br>21.85m AoD            |              | Logged By<br>DL  |        | Scale<br>1:25                                                                                                                                                                                                                                                                                                                                                          |   | Page Number<br>1 of 1 |  |
| Backfill                      | Water<br>Strikes | Sample and In Situ Testing         |              |                                       | Depth<br>(m) | Level<br>(m AoD) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                    |   |                       |  |
|                               |                  | Depth (m)                          | Type         | Results                               |              |                  |        |                                                                                                                                                                                                                                                                                                                                                                        |   |                       |  |
|                               |                  | 0.40 - 0.60<br>0.40 - 0.60<br>0.50 | ES<br>PID    | PID=0.00                              | 0.30         | 21.55            |        | MADE GROUND: vegetation over brown slightly<br>gravelly sandy clayey SILT with frequent rootlets.<br>Gravel is fine to medium flint with rare brick and<br>chalk fragments.(Topsoil)                                                                                                                                                                                   | 1 |                       |  |
|                               |                  | 1.00                               | PID          | PID=0.00                              | 1.20         | 20.65            |        | MADE GROUND: Brown sandy gravelly CLAY.<br>Gravel is predominantly fine to coarse flint with<br>occasional brick fragments and rare chalk.<br>Occasional cobble of brick, rare clayware and<br>concrete.                                                                                                                                                               |   |                       |  |
|                               |                  | 1.50                               | PID          | PID=1.80                              |              |                  |        | MADE GROUND: Dark brown mottled black gravelly<br>CLAY. Frequent lenses of damp/wet waste material.<br>Waste material includes ashy sandy gravel cobble<br>sized fragments of brick, wood, occasionally metal,<br>glass, plastic. Boulder of metal (0.5 to 0.5m) at 1.5m<br>(fragment of machinery or car part?)Difficult digging<br>at 2.5m due to concrete boulders. | 2 |                       |  |
| 2.00                          | PID              | PID=2.40                           |              |                                       |              |                  |        |                                                                                                                                                                                                                                                                                                                                                                        |   |                       |  |
|                               |                  | 2.50 - 2.80<br>2.50 - 2.80<br>2.50 | ES<br>PID    | PID=2.10                              | 2.50         | 19.35            |        | End of Excavation at 2.500m                                                                                                                                                                                                                                                                                                                                            |   | 3                     |  |
| Dimensions                    |                  | Trench Support and Comment         |              |                                       |              |                  |        | Soakaway Testing                                                                                                                                                                                                                                                                                                                                                       |   | 4                     |  |
| Pit Length                    | Pit Width        | Pit Stability                      | Shoring Used | Remarks                               |              | Remarks          |        |                                                                                                                                                                                                                                                                                                                                                                        |   |                       |  |
| 2.00                          | 0.60             | Stable                             | None         |                                       |              |                  |        |                                                                                                                                                                                                                                                                                                                                                                        |   |                       |  |

## Remarks

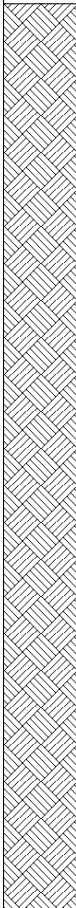
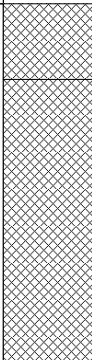
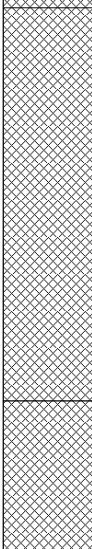
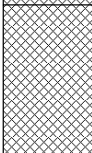
Notes: Abandoned at 2.5m due to difficult digging on concrete boulders.Groundwater: No groundwater encountered.Stability: StableShoring used: None



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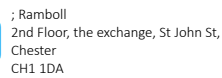
# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 26/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502644.53 N176308.44 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP19       | Location Type<br>TP | Ground Level<br>21.91m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                           | Water Strikes | Sample and In Situ Testing         |              |          | Depth (m)                   | Level (m AoD)    | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                    |   |
|------------------------------------------------------------------------------------|---------------|------------------------------------|--------------|----------|-----------------------------|------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |               | Depth (m)                          | Type         | Results  |                             |                  |                                                                                     |                                                                                                                                                                                                                                                                                        |   |
|  |               |                                    |              |          | 0.25                        | 21.66            |    | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint.(Topsoil)                                                                                                                                                | 1 |
|                                                                                    |               | 0.40 - 0.60<br>0.40 - 0.60<br>0.50 | ES<br>PID    | PID=0.00 |                             |                  |                                                                                     | MADE GROUND: Brown sandy gravelly CLAY. Gravel is predominantly fine to coarse flint with frequent brick fragments. Occasional cobble of brick and concrete.                                                                                                                           |   |
|                                                                                    |               | 1.00                               | PID          | PID=0.60 | 1.20                        | 20.71            |   | MADE GROUND: Dark brown mottled black gravelly CLAY. Frequent lenses of waste material. Waste material includes gravel sized fragments of brick, occasionally wood, metal wire, metal spring, fabric, rubber, rarely plastic fragments. Cobble of metal sheet at 2.9m. Leachate odour. | 2 |
|                                                                                    |               | 1.50                               | PID          | PID=0.80 |                             |                  |                                                                                     |                                                                                                                                                                                                                                                                                        |   |
|                                                                                    |               | 2.00                               | PID          | PID=0.00 |                             |                  |                                                                                     |                                                                                                                                                                                                                                                                                        |   |
|                                                                                    |               | 2.50 - 2.80<br>2.50 - 2.80<br>2.50 | ES<br>PID    | PID=0.60 | 2.50                        | 19.41            |  | MADE GROUND: Damp black silty sandy sometimes clayey GRAVEL of brick, wood, wire, plastic bags. Abundant gravel to cobble sized fragments of wood. Leachate odour.                                                                                                                     | 3 |
| 3.00                                                                               | PID           | PID=2.70                           | 3.00         | 18.91    | End of Excavation at 3.000m |                  |                                                                                     |                                                                                                                                                                                                                                                                                        |   |
|                                                                                    |               |                                    |              |          |                             |                  |                                                                                     |                                                                                                                                                                                                                                                                                        | 4 |
|                                                                                    |               |                                    |              |          |                             |                  |                                                                                     |                                                                                                                                                                                                                                                                                        | 5 |
| Dimensions                                                                         |               | Trench Support and Comment         |              |          |                             | Soakaway Testing |                                                                                     |                                                                                                                                                                                                                                                                                        |   |
| Pit Length                                                                         | Pit Width     | Pit Stability                      | Shoring Used | Remarks  |                             | Remarks          |                                                                                     |                                                                                                                                                                                                                                                                                        |   |
| 2.00                                                                               | 0.60          | Stable                             | None         |          |                             |                  |                                                                                     |                                                                                                                                                                                                                                                                                        |   |

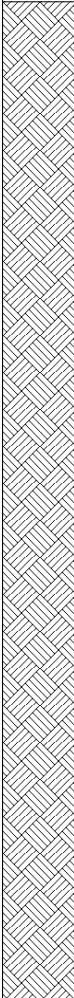
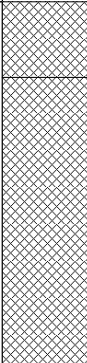
## Remarks

Groundwater: No groundwater encountered.Stability: StableShoring used: None



# Trial Pit Log

|                               |                     |                                       |                 |                                |                       |
|-------------------------------|---------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                     | Client: Aberdeen Standard Investments |                 | Date: 26/07/2021               |                       |
| Location: Heathrow            |                     | Contractor: Ramboll                   |                 | Co-ords: E502646.38 N176238.11 |                       |
| Project No. : 1620012495      |                     | Trial Pit Crew Name:                  |                 | Equipment: JCB 3CX             |                       |
| Location Number<br>TP20       | Location Type<br>TP | Ground Level<br>22.33m AoD            | Logged By<br>DL | Scale<br>1:25                  | Page Number<br>1 of 1 |

| Backfill                                                                           | Water Strikes                                                                       | Sample and In Situ Testing         |              |          | Depth (m) | Level (m AoD)    | Legend                                                                                                                                                                                                                                                                                                                                                                                                     | Stratum Description                                                                                                                                                                                                    |   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|--------------|----------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                     | Depth (m)                          | Type         | Results  |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                        |   |
|  |  |                                    |              |          | 0.25      | 22.08            |                                                                                                                                                                                                                                                                                                                           | MADE GROUND: vegetation over brown slightly gravelly sandy clayey SILT with frequent rootlets. Gravel is fine to medium flint with rare brick and chalk. (Topsoil)                                                     | 1 |
|                                                                                    |                                                                                     | 0.50                               | PID          | PID=0.00 |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                            | MADE GROUND: Brown sandy gravelly CLAY. Gravel is predominantly fine to coarse flint with frequent brick fragments and rare chalk. Occasional cobble of brick, rare clayware, metals sheet, rubber sheet and concrete. |   |
|                                                                                    |                                                                                     | 1.00                               | PID          | PID=0.00 |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                        | 2 |
|                                                                                    |                                                                                     | 1.50 - 1.80<br>1.50 - 1.80<br>1.50 | ES<br>PID    | PID=1.20 |           |                  | MADE GROUND: Dark brown mottled black gravelly CLAY. Frequent lenses of waste material. Waste material includes gravel sized fragments of brick, rarely glass, wire, plastic, wood, chalk, asphalt, ash, PFA. Frequent cobble sized fragments of brick, occasionally concrete, clay pipe, carpet, concrete. Wet from approximately 3.0m with a strong leachate-type odour with a slight hydrocarbon odour. |                                                                                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 2.00                               | PID          | PID=2.20 |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 2.80<br>2.90 - 3.10<br>2.90 - 3.10 | PID<br>ES    | PID=2.60 |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                            | 3                                                                                                                                                                                                                      |   |
|                                                                                    |                                                                                     |                                    |              |          | 3.30      | 19.03            |                                                                                                                                                                                                                                                                                                                                                                                                            | End of Excavation at 3.300m                                                                                                                                                                                            | 4 |
|                                                                                    |                                                                                     |                                    |              |          |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                        | 5 |
| Dimensions                                                                         |                                                                                     | Trench Support and Comment         |              |          |           | Soakaway Testing |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                        |   |
| Pit Length                                                                         | Pit Width                                                                           | Pit Stability                      | Shoring Used | Remarks  |           | Remarks          |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                        |   |
| 2.00                                                                               | 0.60                                                                                | Stable                             | None         |          |           |                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                        |   |

|         |
|---------|
| Remarks |
|---------|

Notes: Groundwater: Groundwater ingress at 3.0m.Stability: StableShoring used: None







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# Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 23/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502874.88 N176217.25 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS01       | Hole Type<br>WLS | Ground Level<br>20.57m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing |      |         | Depth (m)    | Level (m AoD)  | Legend | Stratum Description                                                                                                                            |  |
|------|---------------|----------------------------|------|---------|--------------|----------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|--|
|      |               | Depth (m)                  | Type | Results |              |                |        |                                                                                                                                                |  |
|      |               |                            |      |         | 0.05         | 20.52          |        | Block paving                                                                                                                                   |  |
|      |               |                            |      |         |              |                |        | MADE GROUND: Gravelly slightly clayey SAND.<br>Gravel is medium to coarse angular to subangular of concrete, brick fragments and foundry slag. |  |
|      |               |                            |      |         | 0.70<br>0.80 | 19.87<br>19.77 |        | Concrete                                                                                                                                       |  |
|      |               |                            |      |         |              |                |        | End of Borehole at 0.800m                                                                                                                      |  |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: Refusal at 0.8m on concrete obstruction.





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# Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 23/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502871.66 N176216.04 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS01A      | Hole Type<br>WLS | Ground Level<br>20.52m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                      | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                      |    |  |  |  |  |  |
|---------------------------|---------------|----------------------------|------|---------|-----------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|----|--|--|--|--|--|
|                           |               | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                          |    |  |  |  |  |  |
|                           |               |                            |      |         | 0.05      | 20.47         |        | Block paving                                                                                                                             |    |  |  |  |  |  |
|                           |               |                            |      |         | 0.70      | 19.82         |        | MADE GROUND: Gravelly slightly clayey SAND. Gravel is medium to coarse angular to subangular concrete, brick fragments and foundry slag. |    |  |  |  |  |  |
|                           |               |                            |      |         | 0.75      | 19.77         |        | Concrete                                                                                                                                 |    |  |  |  |  |  |
| End of Borehole at 0.750m |               |                            |      |         |           |               |        | 1                                                                                                                                        |    |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 2  |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 3  |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 4  |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 5  |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 6  |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 7  |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 8  |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 9  |  |  |  |  |  |
|                           |               |                            |      |         |           |               |        |                                                                                                                                          | 10 |  |  |  |  |  |

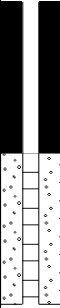
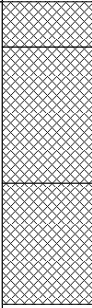


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 23/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502874.68 N176229.18 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS03       | Hole Type<br>WLS | Ground Level<br>20.55m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                              | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend                                                                            | Stratum Description                                                                                                                   |    |
|-----------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|---------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                   |               | Depth (m)                  | Type | Results |           |               |                                                                                   |                                                                                                                                       |    |
|  |               | 0.50 - 0.80                | ES   |         | 0.30      | 20.25         |  | MADE GROUND: light brown gravelly SAND. Gravel is medium to coarse angular to subangular concrete, brick fragments and flint.         |    |
|                                                                                   |               | 1.00                       | PID  | PID=0.1 | 1.20      | 19.35         |                                                                                   | MADE GROUND: Gravelly sandy CLAY. Gravel is medium to coarse angular to subangular concrete, brick fragments, flint and foundry slag. | 1  |
|                                                                                   |               | 1.80 - 2.00                | ES   |         |           |               |                                                                                   | MADE GROUND: Gravelly SAND. Gravel is medium to coarse angular to subangular concrete, brick fragments and foundry slag.              |    |
|                                                                                   |               | 2.00                       | PID  | PID=0.0 | 2.00      | 18.55         |                                                                                   | End of Borehole at 2.000m                                                                                                             | 2  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                       | 3  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                       | 4  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                       | 5  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                       | 6  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                       | 7  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                       | 8  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                       | 9  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                       | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: Refusal at 2.0m.0 - 1m plain pipe, 1-2m slotted pipe; 0-0.9m bentonite; 0.9-2.0m gravel.



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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 26/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502690.00 N175937.00 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS04       | Hole Type<br>WLS | Ground Level<br>21.50m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                                                          |    |
|------|---------------|----------------------------|------|---------|-----------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|      |               | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                                                              |    |
|      |               | 0.60 - 0.80                | ES   |         | 0.50      | 21.00         |        | MADE GROUND: gravelly sandy CLAY with high content of chalk. Gravel is medium to coarse, angular to subangular chalk, flint, concrete and brick fragments                    |    |
|      |               | 1.00                       | PID  | PID=0.0 | 1.00      | 20.50         |        | MADE GROUND: Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse, angular to subangular flint, concrete and brick fragments                                | 1  |
|      |               | 2.00 - 2.30                | ES   |         | 1.80      | 19.70         |        | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is fine to coarse, angular to subangular flint, concrete and brick fragments. Inclusions of plastic, wood and glass. |    |
|      |               | 2.00                       | PID  | PID=0.7 | 2.30      | 19.20         |        | MADE GROUND: Black gravelly CLAY. Gravel is fine to coarse, subangular to angular concrete and brick fragments. Occasional inclusions of plastic.                            | 2  |
|      |               |                            |      |         |           |               |        | End of Borehole at 2.300m                                                                                                                                                    |    |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                              | 3  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                              | 4  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                              | 5  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                              | 6  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                              | 7  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                              | 8  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                              | 9  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                              | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

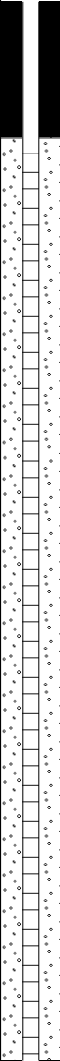
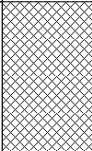
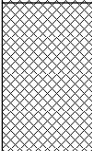
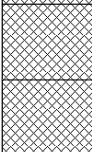
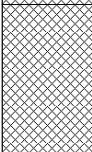
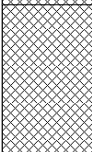
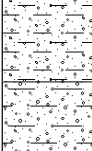
Notes: Refusal on unknown obstruction at 2.3mbgl.0 - 1.0m plain pipe, 1.0 - 2.3m slotted pipe. 0.0-0.9m bentonite; 0.9m-2.3m gravel.



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# Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 26/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502583.00 N175921.00 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS05       | Hole Type<br>WLS | Ground Level<br>21.50m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes                                                                     | Sample and In Situ Testing |      |          | Depth (m) | Level (m AoD) | Legend                                                                              | Stratum Description                                                                                                                                                                                             |    |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|------|----------|-----------|---------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |                                                                                   | Depth (m)                  | Type | Results  |           |               |                                                                                     |                                                                                                                                                                                                                 |    |
|  |  | 0.50 - 0.70                | ES   |          | 1.00      | 20.50         |    | MADE GROUND: Brown clayey gravelly SAND. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Occasional inclusions of plastic, wire, textiles, metal and glass               | 1  |
|                                                                                    |                                                                                   | 2.00                       | PID  | PID=0.4  | 2.00      | 19.50         |    | MADE GROUND: Brown sandy gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                                                                  | 2  |
|                                                                                    |                                                                                   | 3.00                       | PID  | PID=0.2  | 3.00      | 18.50         |    | MADE GROUND: Brown slightly sandy gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                                                         | 3  |
|                                                                                    |                                                                                   | 3.80 - 4.00                | ES   |          | 4.00      | 17.50         |    | MADE GROUND: Black gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Occasional inclusions of wood.                                                         | 4  |
|                                                                                    |                                                                                   | 4.00                       | PID  | PID=0.6  | 4.00      | 17.50         |   | MADE GROUND: Black wet slightly gravelly CLAY. Gravel is fine to medium, angular to subangular flint, concrete and brick fragments.                                                                             | 5  |
|                                                                                    |                                                                                   | 4.50 - 4.80                | ES   |          | 5.00      | 16.50         |  | MADE GROUND: Black wet gravelly CLAY. Gravel is fine to medium, angular to subangular flint, concrete and brick fragments. Frequent inclusions of wood, plastic and elastic bands. Organic / hydrocarbon odour. | 6  |
|                                                                                    |                                                                                   | 5.00                       | PID  | PID=26.8 | 5.00      | 16.50         |  | Light brown slightly sandy slightly gravelly CLAY of natural appearance. Gravel is fine to medium subangular to angular flint.                                                                                  | 7  |
|                                                                                    |                                                                                   | 6.00                       | PID  | PID=0.2  | 6.00      | 15.00         |  | Slightly clayey slightly sandy GRAVEL. Gravel is angular to subangular, fine to medium flint.                                                                                                                   | 8  |
|                                                                                    |                                                                                   | 6.50 - 6.70                | ES   |          | 6.50      | 15.00         |                                                                                     |                                                                                                                                                                                                                 | 9  |
|                                                                                    |                                                                                   | 7.00                       | PID  | PID=2.1  | 7.00      | 14.50         |                                                                                     | End of Borehole at 7.000m                                                                                                                                                                                       | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

**Remarks**

Notes: 0 - 1.0m plain pipe, 1.0 - 7.0m slotted pipe. 0.0-0.9m bentonite; 0.9-7.0m gravel. Water strike at 3.4mbgl.

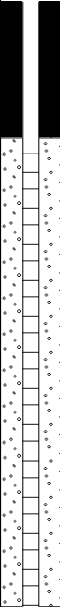
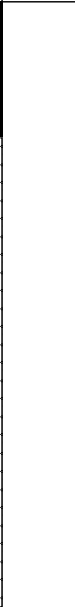


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 26/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502461.22 N175901.08 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS06       | Hole Type<br>WLS | Ground Level<br>21.32m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes                                                                      | Sample and In Situ Testing |           |          | Depth (m)    | Level (m AoD)  | Legend                                                                            | Stratum Description                                                                                                                                        |    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|-----------|----------|--------------|----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |                                                                                    | Depth (m)                  | Type      | Results  |              |                |                                                                                   |                                                                                                                                                            |    |
|  |  | 0.50 - 0.80<br>0.50        | ES<br>PID | PID=0.4  | 0.50<br>0.80 | 20.82<br>20.52 |  | MADE GROUND: Gravelly sandy CLAY with high content of chalk. Gravel is medium to coarse, angular to subangular chalk, flint, concrete and brick fragments. | 1  |
|                                                                                    |                                                                                    |                            |           |          |              |                |  | MADE GROUND: Sandy slightly gravelly CLAY. Gravel is medium to coarse, angular to subangular, rounded chalk, flint, concrete and brick fragments.          |    |
|                                                                                    |                                                                                    |                            |           |          |              |                |  | MADE GROUND: Light brown and light red gravelly CLAY. Gravel in fine to medium, angular to subangular, flint and concrete.                                 |    |
|                                                                                    |                                                                                    | 2.00                       | PID       | PID=0.8  | 2.00<br>2.10 | 19.32<br>19.22 |  | MADE GROUND: Dark grey gravelly CLAY. Gravel is medium to coarse, angular to subangular brick and concrete fragments.                                      | 2  |
|                                                                                    |                                                                                    |                            |           |          |              |                |  | MADE GROUND: Plastic sheets containing decomposing material.                                                                                               |    |
|                                                                                    |                                                                                    | 2.80 - 3.00<br>3.00        | ES<br>PID | PID=11.4 | 3.20         | 18.12          |  | MADE GROUND: Dark grey gravelly CLAY. Gravel is fine to medium, angular to subangular brick and concrete fragments.                                        | 3  |
|                                                                                    |                                                                                    |                            |           |          |              |                |                                                                                   | End of Borehole at 3.200m                                                                                                                                  |    |
|                                                                                    |                                                                                    |                            |           |          |              |                |                                                                                   |                                                                                                                                                            | 4  |
|                                                                                    |                                                                                    |                            |           |          |              |                |                                                                                   |                                                                                                                                                            | 5  |
|                                                                                    |                                                                                    |                            |           |          |              |                |                                                                                   |                                                                                                                                                            | 6  |
|                                                                                    |                                                                                    |                            |           |          |              |                |                                                                                   |                                                                                                                                                            | 7  |
|                                                                                    |                                                                                    |                            |           |          |              |                |                                                                                   |                                                                                                                                                            | 8  |
|                                                                                    |                                                                                    |                            |           |          |              |                |                                                                                   |                                                                                                                                                            | 9  |
|                                                                                    |                                                                                    |                            |           |          |              |                |                                                                                   |                                                                                                                                                            | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

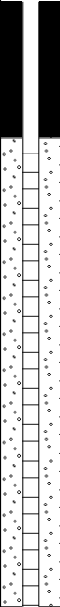
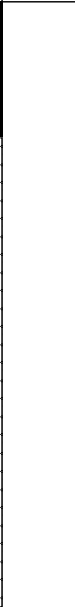
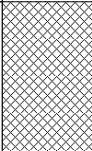
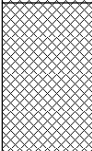
Notes: 0 - 1.0m plain pipe, 1.0 - 3.2m slotted pipe; 0.0-0.9m bentonite; 1.0-3.2m gravel.





## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 27/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502197.23 N175737.78 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS07       | Hole Type<br>WLS | Ground Level<br>19.28m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

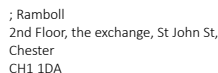
| Well                                                                               | Water Strikes                                                                      | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend                                                                            | Stratum Description                                                                                                                                                                                                                             |    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|------|---------|-----------|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |                                                                                    | Depth (m)                  | Type | Results |           |               |                                                                                   |                                                                                                                                                                                                                                                 |    |
|  |  | 0.80 - 1.00                | ES   | PID=0.0 | 1.00      | 18.28         |  | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                                                                                        | 1  |
|                                                                                    |                                                                                    | 1.00                       | PID  |         |           |               |                                                                                   | MADE GROUND: Brown slightly gravelly CLAY with black mottling. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                                                                           |    |
|                                                                                    |                                                                                    | 1.80 - 2.00                | ES   | PID=0.1 | 2.00      | 17.28         |  | MADE GROUND: Brown slightly gravelly CLAY with black mottling. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Occasional inclusions of wood. Decomposing organic material in plastic sheets No recovery | 2  |
|                                                                                    |                                                                                    | 2.00                       | PID  |         | 2.20      | 17.08         |                                                                                   |                                                                                                                                                                                                                                                 |    |
|                                                                                    |                                                                                    |                            |      |         | 2.50      | 16.78         |                                                                                   |                                                                                                                                                                                                                                                 |    |
|                                                                                    |                                                                                    |                            |      |         | 2.70      | 16.58         |                                                                                   |                                                                                                                                                                                                                                                 |    |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 |    |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 |    |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 |    |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 |    |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 |    |
|                                                                                    |                                                                                    |                            |      |         | 4.00      | 15.28         |                                                                                   | End of Borehole at 4.000m                                                                                                                                                                                                                       | 4  |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 | 5  |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 | 6  |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 | 7  |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 | 8  |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 | 9  |
|                                                                                    |                                                                                    |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                                                                                 | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0.0-0.9m bentonite; 0.9-4.0m gravel.





# Borehole Drilling Log

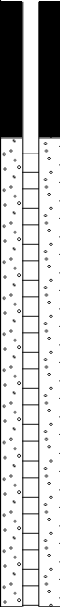
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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 27/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502307.31 N175839.70 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS08       | Hole Type<br>WLS | Ground Level<br>20.34m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                                                               |    |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |               | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                                                                   |    |
|  |               | 0.80 - 1.00                | ES   |         |           |               |        | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular comprising flint, concrete and brick fragments.                               |    |
|                                                                                    |               | 1.00                       | PID  | PID=0.1 | 1.00      | 19.34         |        | MADE GROUND: Brown gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Occasional inclusions of plastic, glass and polystyrene. | 1  |
|                                                                                    |               | 2.00                       | PID  | PID=0.0 |           |               |        |                                                                                                                                                                                   | 2  |
|                                                                                    |               | 3.00                       | PID  | PID=0.0 | 3.00      | 17.34         |        | MADE GROUND: Black slightly gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Hydrocarbon / organic odour at 3.8m             | 3  |
|                                                                                    |               | 3.80 - 4.00                | ES   |         |           |               |        |                                                                                                                                                                                   |    |
|                                                                                    |               | 4.00                       | PID  | PID=4.0 | 4.00      | 16.34         |        | End of Borehole at 4.000m                                                                                                                                                         | 4  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                   | 5  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                   | 6  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                   | 7  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                   | 8  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                   | 9  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                   | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0.0-0.9m bentonite; 0.9-4.0m gravel.

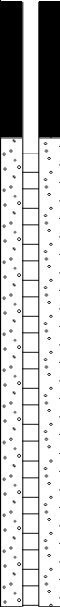
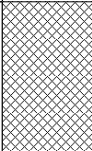
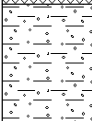
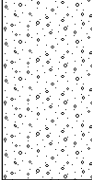


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 27/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502378.36 N175936.73 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS09       | Hole Type<br>WLS | Ground Level<br>20.55m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes                                                                     | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend                                                                             | Stratum Description                                                                                                                                                  |    |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|------|---------|-----------|---------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |                                                                                   | Depth (m)                  | Type | Results |           |               |                                                                                    |                                                                                                                                                                      |    |
|  |  | 0.80 - 1.00                | ES   |         |           |               |                                                                                    | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Rare inclusions of plastic. |    |
|                                                                                    |                                                                                   | 1.00                       | PID  | PID=0.1 | 1.00      | 19.55         |   | MADE GROUND: Brown gravelly CLAY with black mottling. Gravel is fine to medium, subangular to angular slate slabs and brick fragments.                               | 1  |
|                                                                                    |                                                                                   | 2.00                       | PID  | PID=0.1 | 2.00      | 18.55         |   | Dark grey very slightly gravelly CLAY. Gravel is fine to medium, subangular to angular and of natural appearance (flint).                                            | 2  |
|                                                                                    |                                                                                   | 2.80 - 3.00                | ES   |         | 2.80      | 17.75         |                                                                                    | Sandy fine to medium subangular to angular flint GRAVEL.                                                                                                             | 3  |
|                                                                                    |                                                                                   | 3.00                       | PID  | PID=0.0 |           |               |  |                                                                                                                                                                      |    |
|                                                                                    |                                                                                   |                            |      |         | 4.00      | 16.55         |                                                                                    | End of Borehole at 4.000m                                                                                                                                            | 4  |
|                                                                                    |                                                                                   |                            |      |         |           |               |                                                                                    |                                                                                                                                                                      | 5  |
|                                                                                    |                                                                                   |                            |      |         |           |               |                                                                                    |                                                                                                                                                                      | 6  |
|                                                                                    |                                                                                   |                            |      |         |           |               |                                                                                    |                                                                                                                                                                      | 7  |
|                                                                                    |                                                                                   |                            |      |         |           |               |                                                                                    |                                                                                                                                                                      | 8  |
|                                                                                    |                                                                                   |                            |      |         |           |               |                                                                                    |                                                                                                                                                                      | 9  |
|                                                                                    |                                                                                   |                            |      |         |           |               |                                                                                    |                                                                                                                                                                      | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0.0-0.9m bentonite; 0.9-4.0m gravel. Water strike at 3-4mbgl.

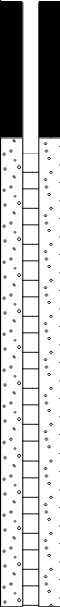
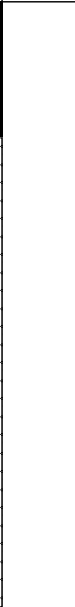


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 29/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502383.36 N176033.79 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS10       | Hole Type<br>WLS | Ground Level<br>20.47m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes                                                                      | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                                                                           |    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|------|---------|-----------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |                                                                                    | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                                                                               |    |
|  |  | 0.80 - 1.00                | ES   |         |           |               |        | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                                      |    |
|                                                                                    |                                                                                    | 1.00                       | PID  | PID=0.1 | 1.00      | 19.47         |        | MADE GROUND: light brown slightly gravelly CLAY with black mottling. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                   | 1  |
|                                                                                    |                                                                                    | 1.80 - 2.00                | ES   |         |           |               |        |                                                                                                                                                                                               |    |
|                                                                                    |                                                                                    | 2.00                       | PID  | PID=0.1 | 2.00      | 18.47         |        | Dark grey slightly sandy, slightly gravelly CLAY. Gravel is fine to medium, subangular to angular and of natural appearance (flint). Presence of rootlets and decomposing natural vegetation. | 2  |
|                                                                                    |                                                                                    |                            |      |         | 2.50      | 17.97         |        |                                                                                                                                                                                               |    |
|                                                                                    |                                                                                    |                            |      |         | 2.70      | 17.77         |        | Brown sandy clayey medium to coarse, subangular to angular flint GRAVEL.                                                                                                                      |    |
|                                                                                    |                                                                                    | 3.00                       | PID  | PID=0.1 | 3.00      | 17.47         |        | Dark brown sandy CLAY. Presence of rootlets and decomposing natural vegetation.                                                                                                               | 3  |
|                                                                                    |                                                                                    |                            |      |         |           |               |        | Brown sandy medium to coarse, rounded to subrounded flint GRAVEL.                                                                                                                             |    |
|                                                                                    |                                                                                    | 4.00                       | PID  | PID=0.1 | 4.00      | 16.47         |        |                                                                                                                                                                                               |    |
|                                                                                    |                                                                                    |                            |      |         |           |               |        | End of Borehole at 4.000m                                                                                                                                                                     | 4  |
|                                                                                    |                                                                                    |                            |      |         |           |               |        |                                                                                                                                                                                               | 5  |
|                                                                                    |                                                                                    |                            |      |         |           |               |        |                                                                                                                                                                                               | 6  |
|                                                                                    |                                                                                    |                            |      |         |           |               |        |                                                                                                                                                                                               | 7  |
|                                                                                    |                                                                                    |                            |      |         |           |               |        |                                                                                                                                                                                               | 8  |
|                                                                                    |                                                                                    |                            |      |         |           |               |        |                                                                                                                                                                                               | 9  |
|                                                                                    |                                                                                    |                            |      |         |           |               |        |                                                                                                                                                                                               | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0.0-0.9m bentonite; 0.9-4.0m gravel.

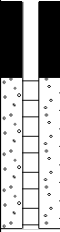
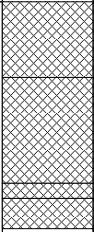


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 23/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502455.36 N176050.30 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS11       | Hole Type<br>WLS | Ground Level<br>21.46m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                              | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend                                                                            | Stratum Description                                                                                                                                                                     |    |
|-----------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                   |               | Depth (m)                  | Type | Results |           |               |                                                                                   |                                                                                                                                                                                         |    |
|  |               | 0.50 - 0.80                | ES   |         | 0.50      | 20.96         |  | MADE GROUND: Clayey gravelly SAND. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments, occasionally fragments of plastic, textiles, metal and glass. | 1  |
|                                                                                   |               | 0.50                       | PID  | PID=0.2 |           |               |                                                                                   | MADE GROUND: Light brown gravelly CLAY. Gravel is medium to coarse, subangular to angular flint, concrete and brick fragments.                                                          |    |
|                                                                                   |               | 1.00                       | PID  | PID=0.5 |           |               |                                                                                   | MADE GROUND: Concrete                                                                                                                                                                   |    |
|                                                                                   |               | 1.30 - 1.50                | ES   |         | 1.20      | 20.26         |                                                                                   | MADE GROUND: Dark brown gravelly CLAY. Gravel is medium to coarse, subangular to angular flint, concrete and brick fragments.                                                           |    |
|                                                                                   |               | 1.50                       | PID  | PID=2.3 | 1.50      | 19.96         |                                                                                   | End of Borehole at 1.500m                                                                                                                                                               | 2  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                         | 3  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                         | 4  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                         | 5  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                         | 6  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                         | 7  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                         | 8  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                         | 9  |
|                                                                                   |               |                            |      |         |           |               |                                                                                   |                                                                                                                                                                                         | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: Refusal at 1.5m on unknown obstruction. 0 - 0.5m plain pipe, 0.5 - 1.5m slotted pipe; 0.0-0.5m bentonite; 0.5-1.5m gravel.

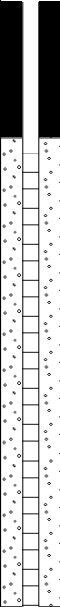
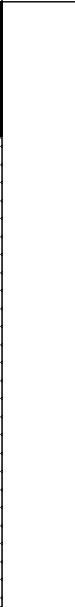
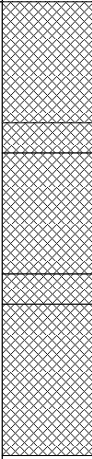


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 26/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502444.18 N176086.58 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS12       | Hole Type<br>WLS | Ground Level<br>21.19m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes                                                                      | Sample and In Situ Testing |      |          | Depth (m) | Level (m AoD) | Legend                                                                            | Stratum Description                                                                                                                                                                    |    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|------|----------|-----------|---------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |                                                                                    | Depth (m)                  | Type | Results  |           |               |                                                                                   |                                                                                                                                                                                        |    |
|  |  | 0.60 - 0.80                | ES   |          | 0.80      | 20.39         |  | MADE GROUND: clayey gravelly SAND. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Rare inclusions of plastic, wire, textiles, metal and glass. |    |
|                                                                                    |                                                                                    | 1.00                       | PID  | PID=0.5  | 1.00      | 20.19         |                                                                                   | MADE GROUND: sandy gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Inclusions of plastic, wire, textiles, metal, glass and wood. | 1  |
|                                                                                    |                                                                                    | 1.80 - 2.00                | ES   |          | 1.80      | 19.39         |                                                                                   | MADE GROUND: light grey gravelly CLAY. Gravel is fine to medium, angular to subangular brick and concrete fragments. Inclusions of plastic, glass and wood.                            |    |
|                                                                                    |                                                                                    | 2.00                       | PID  | PID=15.2 | 2.00      | 19.19         |                                                                                   | MADE GROUND: light grey gravelly CLAY. Gravel is fine to medium, angular to subangular and of artificial composition including brick and concrete fragments. Inclusions of burnt paper | 2  |
|                                                                                    |                                                                                    | 3.00                       | PID  | PID=2.1  | 3.00      | 18.19         |                                                                                   | MADE GROUND: Dark grey gravelly CLAY. Gravel is fine to medium, angular to subangular and of artificial composition including brick and concrete fragments.                            | 3  |
|                                                                                    |                                                                                    |                            |      |          |           |               |                                                                                   | Compacted plastic sheets with no recovery                                                                                                                                              |    |
|                                                                                    |                                                                                    |                            |      |          | 4.00      | 17.19         |                                                                                   | End of Borehole at 4.000m                                                                                                                                                              | 4  |
|                                                                                    |                                                                                    |                            |      |          |           |               |                                                                                   |                                                                                                                                                                                        | 5  |
|                                                                                    |                                                                                    |                            |      |          |           |               |                                                                                   |                                                                                                                                                                                        | 6  |
|                                                                                    |                                                                                    |                            |      |          |           |               |                                                                                   |                                                                                                                                                                                        | 7  |
|                                                                                    |                                                                                    |                            |      |          |           |               |                                                                                   |                                                                                                                                                                                        | 8  |
|                                                                                    |                                                                                    |                            |      |          |           |               |                                                                                   |                                                                                                                                                                                        | 9  |
|                                                                                    |                                                                                    |                            |      |          |           |               |                                                                                   |                                                                                                                                                                                        | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe; 0.0-0.9m bentonite; 0.9-4.0m gravel.

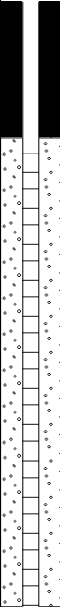
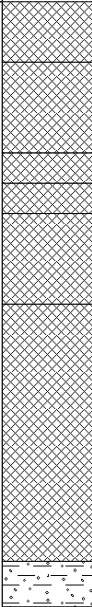


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 23/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502582.79 N176136.47 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS13       | Hole Type<br>WLS | Ground Level<br>22.21m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend                                                                             | Stratum Description                                                                                                                                                                                    |    |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|---------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |               | Depth (m)                  | Type | Results |           |               |                                                                                    |                                                                                                                                                                                                        |    |
|  |               |                            |      |         | 0.40      | 21.81         |  | MADE GROUND: Slightly clayey slightly gravelly SAND. Gravel is fine to medium, angular to subangular of predominantly concrete and brick fragments.                                                    |    |
|                                                                                    |               | 1.00 - 1.20                | ES   |         | 1.00      | 21.21         |                                                                                    | MADE GROUND: Slightly gravelly, slightly sandy dark grey CLAY. Gravel is medium to coarse angular to subangular concrete, brick fragments and foundry slag.                                            | 1  |
|                                                                                    |               | 1.00                       | PID  | PID=1.9 | 1.20      | 21.01         |                                                                                    | MADE GROUND: Slightly gravelly, slightly sandy dark grey CLAY. Gravel is medium to coarse angular to subangular including concrete, brick fragments and foundry slag.                                  |    |
|                                                                                    |               | 1.50                       | PID  | PID=2.4 | 1.40      | 20.81         |                                                                                    | MADE GROUND: Slightly gravelly, sandy dark grey CLAY. Gravel is medium to coarse angular to subangular including concrete, brick fragments and flint.                                                  | 2  |
|                                                                                    |               | 2.00 - 2.20                | ES   |         | 2.00      | 20.21         |                                                                                    | MADE GROUND: Gravelly, sandy dark brown CLAY. Gravel is medium to coarse angular to subangular predominantly concrete, brick fragments and flint. Inclusions of wood, plastic, metal, wire and tissue. |    |
|                                                                                    |               | 2.50                       | PID  | PID=1.2 |           |               |                                                                                    | MADE GROUND: Slightly gravelly dark soft CLAY. Gravel is fine to medium, subangular to angular concrete and brick fragments.                                                                           | 3  |
|                                                                                    |               | 3.50                       | PID  | PID=2.2 | 3.70      | 18.51         |                                                                                    | Brown very slightly gravelly CLAY. Gravel is fine to medium, subangular to angular flint.                                                                                                              |    |
|                                                                                    |               | 4.00                       | PID  | PID=3.3 | 4.00      | 18.21         |                                                                                    | End of Borehole at 4.000m                                                                                                                                                                              | 4  |
|                                                                                    |               |                            |      |         |           |               |                                                                                    |                                                                                                                                                                                                        | 5  |
|                                                                                    |               |                            |      |         |           |               |                                                                                    |                                                                                                                                                                                                        | 6  |
|                                                                                    |               |                            |      |         |           |               |                                                                                    |                                                                                                                                                                                                        | 7  |
|                                                                                    |               |                            |      |         |           |               |                                                                                    |                                                                                                                                                                                                        | 8  |
|                                                                                    |               |                            |      |         |           |               |                                                                                    |                                                                                                                                                                                                        | 9  |
|                                                                                    |               |                            |      |         |           |               |                                                                                    |                                                                                                                                                                                                        | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0-0.9m bentonite; 0.9-4.0m gravel.



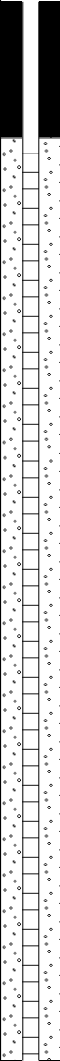


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 29/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502569.13 N176023.69 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS14       | Hole Type<br>WLS | Ground Level<br>21.99m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                                                                                                                           |    |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |               | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                                                                                                                               |    |
|  |               | 0.80 - 1.00                | ES   |         |           |               |        | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Rare inclusions of glass, textiles and metal wires                                                   |    |
|                                                                                    |               | 1.00                       | PID  | PID=0.0 | 1.00      | 20.99         |        | MADE GROUND: Black very slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                                                                                 | 1  |
|                                                                                    |               | 1.50                       | PID  | PID=6.4 | 1.50      | 20.49         |        | MADE GROUND: Black very slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments and occasional inclusions of polystyrene, wood and plastic. Hydrocarbon / organic odour at 1.5m. |    |
|                                                                                    |               | 1.80 - 2.00                | ES   |         | 2.00      | 19.99         |        | MADE GROUND: dark brown gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments and inclusions of wood and plastic. Clay becoming darker from 3.0m. Frequent wood fragments from 4.0 to 5.0m.    | 2  |
|                                                                                    |               | 3.00                       | PID  | PID=0.2 |           |               |        |                                                                                                                                                                                                                                               | 3  |
|                                                                                    |               | 3.80 - 4.00                | ES   |         |           |               |        |                                                                                                                                                                                                                                               |    |
|                                                                                    |               | 4.00                       | PID  | PID=0.0 |           |               |        |                                                                                                                                                                                                                                               | 4  |
|                                                                                    |               | 5.00                       | PID  | PID=0.0 | 5.00      | 16.99         |        | MADE GROUND: Wet brown slightly gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments and inclusions of wood.                                                                                  | 5  |
|                                                                                    |               | 6.00                       | PID  | PID=0.1 | 6.00      | 15.99         |        | Sandy fine to coarse, rounded to subrounded angular to subangular flint GRAVEL.                                                                                                                                                               | 6  |
|                                                                                    |               |                            |      |         | 6.50      | 15.49         |        | Dark brown sandy CLAY. Presence of rootlets and decomposing natural vegetation.                                                                                                                                                               |    |
|                                                                                    |               | 7.00                       | PID  | PID=0.1 | 7.00      | 14.99         |        | End of Borehole at 7.000m                                                                                                                                                                                                                     | 7  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                                                               | 8  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                                                               | 9  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                                                               | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 7.0m slotted pipe. 0.0-0.9m bentonite; 0.9-7.0m gravel. Water strike at 6.0mbgl.

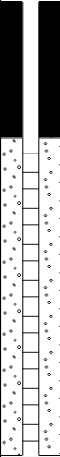
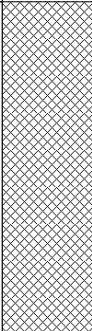
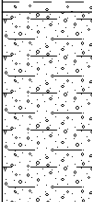


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 29/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502814.40 N176393.65 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS15       | Hole Type<br>WLS | Ground Level<br>21.10m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                              | Water Strikes                                                                     | Sample and In Situ Testing |           |         | Depth (m) | Level (m AoD) | Legend                                                                            | Stratum Description                                                                                                                             |    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-----------|---------|-----------|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                   |                                                                                   | Depth (m)                  | Type      | Results |           |               |                                                                                   |                                                                                                                                                 |    |
|  |  | 0.80 - 1.00<br>1.00        | ES<br>PID | PID=0.1 |           |               |  | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.        | 1  |
|                                                                                   |                                                                                   | 2.00 - 2.20<br>2.00        | ES<br>PID | PID=0.0 | 2.20      | 18.90         |  | Brown sandy slightly gravelly CLAY with rootlets and shells. Gravel is fine to medium, subangular to angular and of natural appearance (flint). | 2  |
|                                                                                   |                                                                                   | 3.00                       | PID       | PID=0.2 | 2.70      | 18.40         |  | Slightly sandy slightly clayey fine to coarse, rounded to subrounded flint GRAVEL. Poor recovery                                                | 3  |
|                                                                                   |                                                                                   | 4.00                       | PID       | PID=0.0 | 4.00      | 17.10         |                                                                                   | End of Borehole at 4.000m                                                                                                                       | 4  |
|                                                                                   |                                                                                   |                            |           |         |           |               |                                                                                   |                                                                                                                                                 | 5  |
|                                                                                   |                                                                                   |                            |           |         |           |               |                                                                                   |                                                                                                                                                 | 6  |
|                                                                                   |                                                                                   |                            |           |         |           |               |                                                                                   |                                                                                                                                                 | 7  |
|                                                                                   |                                                                                   |                            |           |         |           |               |                                                                                   |                                                                                                                                                 | 8  |
|                                                                                   |                                                                                   |                            |           |         |           |               |                                                                                   |                                                                                                                                                 | 9  |
|                                                                                   |                                                                                   |                            |           |         |           |               |                                                                                   |                                                                                                                                                 | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

Remarks



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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 28/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502709.46 N176382.25 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS16       | Hole Type<br>WLS | Ground Level<br>21.34m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                                                                |    |
|------|---------------|----------------------------|------|---------|-----------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|      |               | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                                                                    |    |
|      |               | 0.80 - 1.00                | ES   |         |           |               |        | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Rare inclusions of plastic sheets         |    |
|      |               | 1.00                       | PID  | PID=0.1 | 1.00      | 20.34         |        | MADE GROUND: Brown gravelly CLAY with black mottling. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                       | 1  |
|      |               | 2.00                       | PID  | PID=0.1 | 2.20      | 19.14         |        | Dark grey very slightly gravelly CLAY. Gravel is fine to medium, subangular to angular and of natural appearance (flint). Presence of rootlets and decomposing natural vegetation. | 2  |
|      |               | 3.00                       | PID  | PID=0.0 | 3.50      | 17.84         |        | Sandy clayey medium to coarse, subangular to angular flint GRAVEL.                                                                                                                 | 3  |
|      |               | 3.80 - 4.00                | ES   |         | 4.00      | 17.34         |        | End of Borehole at 4.000m                                                                                                                                                          | 4  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                                    | 5  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                                    | 6  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                                    | 7  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                                    | 8  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                                    | 9  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                                    | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0.0-0.9m bentonite; 0.9-4.0m gravel.





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# Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 28/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502597.02 N176355.22 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS17       | Hole Type<br>WLS | Ground Level<br>21.72m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing |           |         | Depth (m)    | Level (m AoD)  | Legend | Stratum Description                                                                                                                                                                    |    |
|------|---------------|----------------------------|-----------|---------|--------------|----------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|      |               | Depth (m)                  | Type      | Results |              |                |        |                                                                                                                                                                                        |    |
|      |               | 0.80 - 1.00<br>1.00        | ES<br>PID | PID=0.3 | 1.00         | 20.72          |        | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Rare inclusions of slate, ceramics and glass. | 1  |
|      |               | 1.80 - 2.00<br>1.80        | ES<br>PID | PID=0.0 | 1.80<br>2.10 | 19.92<br>19.62 |        | MADE GROUND: light brown slightly sandy gravelly CLAY. Gravel is coarse, angular to subangular and of artificial composition comprising, concrete and brick fragments.                 | 2  |
|      |               |                            |           |         |              |                |        | MADE GROUND: Brick fragments, concrete and metal fragments. Obstruction at 2.1m.<br>End of Borehole at 2.100m                                                                          | 2  |
|      |               |                            |           |         |              |                |        |                                                                                                                                                                                        | 3  |
|      |               |                            |           |         |              |                |        |                                                                                                                                                                                        | 4  |
|      |               |                            |           |         |              |                |        |                                                                                                                                                                                        | 5  |
|      |               |                            |           |         |              |                |        |                                                                                                                                                                                        | 6  |
|      |               |                            |           |         |              |                |        |                                                                                                                                                                                        | 7  |
|      |               |                            |           |         |              |                |        |                                                                                                                                                                                        | 8  |
|      |               |                            |           |         |              |                |        |                                                                                                                                                                                        | 9  |
|      |               |                            |           |         |              |                |        |                                                                                                                                                                                        | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: Refusal at 2.1m on unknown obstruction.0 - 1.0m plain pipe, 1.0 - 2.0m slotted pipe. 0.0-0.9m bentonite; 0.9-2.0m gravel.

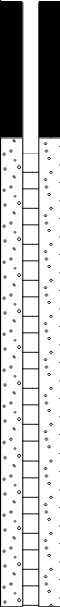


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 29/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502596.50 N176355.20 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS17A      | Hole Type<br>WLS | Ground Level<br>21.72m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                                                                                           |    |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|---------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |               | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                                                                                               |    |
|  |               | 0.80 - 1.00                | ES   |         |           |               |        | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                                                                      |    |
|                                                                                    |               | 1.00                       | PID  | PID=0.1 | 1.00      | 20.72         |        | MADE GROUND: light brown slightly gravelly CLAY with black mottling. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Occasional inclusions of wood, glass and plastic. | 1  |
|                                                                                    |               | 2.00                       | PID  | PID=0.0 | 2.20      | 19.52         |        | Dark grey slightly sandy, very slightly gravelly CLAY. Gravel is fine to medium, subangular to angular and of natural appearance (flint). Presence of rootlets and decomposing natural vegetation.            | 2  |
|                                                                                    |               | 3.00                       | PID  | PID=0.2 | 3.30      | 18.42         |        | Sandy slightly clayey fine to coarse, rounded to subrounded flint GRAVEL. Poor recovery                                                                                                                       | 3  |
|                                                                                    |               | 3.50 - 3.70                | ES   |         |           |               |        |                                                                                                                                                                                                               |    |
|                                                                                    |               | 4.00                       | PID  | PID=0.0 | 4.00      | 17.72         |        | End of Borehole at 4.000m                                                                                                                                                                                     | 4  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                               | 5  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                               | 6  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                               | 7  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                               | 8  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                               | 9  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                                                                               | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0.0-0.9m bentonite; 0.9-4.0m gravel.

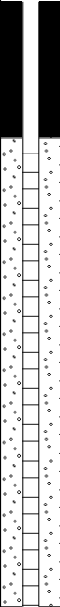


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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 28/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502528.26 N176355.76 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS18       | Hole Type<br>WLS | Ground Level<br>21.42m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                               |    |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|---------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                    |               | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                                   |    |
|  |               | 0.80 - 1.00                | ES   |         |           |               |        | MADE GROUND: Brown slightly sandy, slightly gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. |    |
|                                                                                    |               | 1.00                       | PID  | PID=0.0 | 1.00      | 20.42         |        | MADE GROUND: Brown slightly sandy, gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.          | 1  |
|                                                                                    |               | 2.00                       | PID  | PID=0.0 | 2.00      | 19.42         |        | No recovery                                                                                                                                       | 2  |
|                                                                                    |               | 3.20 - 3.40                | ES   |         | 3.20      | 18.22         |        | Dark grey very slightly sandy CLAY. Presence of rootlets and decomposing natural vegetation.                                                      | 3  |
|                                                                                    |               | 4.00                       | PID  | PID=0.0 | 4.00      | 17.42         |        | End of Borehole at 4.000m                                                                                                                         | 4  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                   | 5  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                   | 6  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                   | 7  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                   | 8  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                   | 9  |
|                                                                                    |               |                            |      |         |           |               |        |                                                                                                                                                   | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0.0-0.9m bentonite; 0.9-4.0m gravel.





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# Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 28/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502536.25 N176291.24 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS19       | Hole Type<br>WLS | Ground Level<br>21.50m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                                                         |    |
|------|---------------|----------------------------|------|---------|-----------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|      |               | Depth (m)                  | Type | Results |           |               |        |                                                                                                                                                                             |    |
|      |               | 0.80 - 1.00                | ES   |         |           |               |        | MADE GROUND: Brown slightly sandy, slightly gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. Rare inclusions of glass. |    |
|      |               | 1.00                       | PID  | PID=0.0 | 1.00      | 20.50         |        | No recovery                                                                                                                                                                 | 1  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                             | 2  |
|      |               | 2.80 - 3.00                | ES   |         | 2.50      | 19.00         |        | MADE GROUND: Brown slightly sandy, slightly gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments.                           |    |
|      |               | 3.00                       | PID  | PID=0.4 | 2.80      | 18.70         |        | Wet grey gravelly CLAY. Gravel is fine to medium, angular to subangular, of natural appearance (flint).                                                                     | 3  |
|      |               |                            |      |         | 3.00      | 18.50         |        | Dark grey very slightly sandy CLAY. Presence of rootlets and decomposing natural vegetation and shells.                                                                     |    |
|      |               | 4.00                       | PID  | PID=0.0 | 4.00      | 17.50         |        | End of Borehole at 4.000m                                                                                                                                                   | 4  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                             | 5  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                             | 6  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                             | 7  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                             | 8  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                             | 9  |
|      |               |                            |      |         |           |               |        |                                                                                                                                                                             | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: 0 - 1.0m plain pipe, 1.0 - 4.0m slotted pipe. 0.0-0.9m bentonite; 0.9-4.0m gravel.



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## Borehole Drilling Log

|                               |                  |                                       |                 |                                |                       |
|-------------------------------|------------------|---------------------------------------|-----------------|--------------------------------|-----------------------|
| Project Name: Poyle, Heathrow |                  | Client: Aberdeen Standard Investments |                 | Date: 28/08/2021               |                       |
| Location: Heathrow            |                  | Contractor: Ramboll                   |                 | Co-ords: E502550.15 N176202.66 |                       |
| Project No. : 1620012495      |                  | Crew Name: Dynamic Sampling Ltd       |                 | Drilling Equipment:            |                       |
| Borehole Number<br>WS20       | Hole Type<br>WLS | Ground Level<br>21.37m AoD            | Logged By<br>HC | Scale<br>1:50                  | Page Number<br>1 of 1 |

| Well | Water Strikes | Sample and In Situ Testing |           |         | Depth (m) | Level (m AoD) | Legend | Stratum Description                                                                                                                               |    |
|------|---------------|----------------------------|-----------|---------|-----------|---------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|----|
|      |               | Depth (m)                  | Type      | Results |           |               |        |                                                                                                                                                   |    |
|      |               | 0.80 - 1.00<br>1.00        | ES<br>PID | PID=0.0 | 1.70      | 19.67         |        | MADE GROUND: Brown slightly sandy, slightly gravelly CLAY. Gravel is medium to coarse, angular to subangular flint, concrete and brick fragments. | 1  |
|      |               |                            |           |         |           |               |        | End of Borehole at 1.700m                                                                                                                         | 2  |
|      |               |                            |           |         |           |               |        |                                                                                                                                                   | 3  |
|      |               |                            |           |         |           |               |        |                                                                                                                                                   | 4  |
|      |               |                            |           |         |           |               |        |                                                                                                                                                   | 5  |
|      |               |                            |           |         |           |               |        |                                                                                                                                                   | 6  |
|      |               |                            |           |         |           |               |        |                                                                                                                                                   | 7  |
|      |               |                            |           |         |           |               |        |                                                                                                                                                   | 8  |
|      |               |                            |           |         |           |               |        |                                                                                                                                                   | 9  |
|      |               |                            |           |         |           |               |        |                                                                                                                                                   | 10 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |            |             |             |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------------|-------------|-------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Depth Top                   | Depth Base | Inclination | Orientation |
|               |          |                 |          |            |            |          |      |                             |            |             |             |

## Remarks

Notes: Refusal at 1.7m on unknown obstruction.0 - 0.7m plain pipe, 0.7 - 1.7m slotted pipe. 0.0-0.6m bentonite; 0.9-1.7m gravel.





## Appendix 4 Field Methods

In the preparation of this report Ramboll has made reference to UK regulatory guidance and methodologies, including, but not limited to: Land Contamination: Risk Management<sup>7</sup> (LCRM); BS5930:2015+A1:2020 Code of Practice for site Investigation<sup>8</sup>; and BS10175:2011 + A2:2017 Code of Practice for the Investigation of Potentially Contaminated Sites<sup>9</sup>.

This section refers to work undertaken by Ramboll only.

### **Investigatory Locations**

Investigatory locations were marked out and cleared by a specialist underground service clearance contractor before the start of intrusive works, in accordance with Ramboll's Health and Safety procedures. Supervision of drilling works was undertaken by a professional engineer, who logged the soil arisings, collected samples and completed in-situ testing;

Where boreholes were drilled, these were undertaken to facilitate the collection of shallow and deeper soil and groundwater samples. Selected boreholes were installed with monitoring wells for assessment of ground gas and, where present groundwater conditions .

Trial pits were excavated using a mechanical excavator to facilitate the collection of shallow soil samples and allow the assessment of ground conditions for environmental purposes;

Hand dug pits were dug, to facilitate the collection of shallow soil samples and allow the assessment of ground conditions for environmental purposes.

### **Sampling**

Samples of various environmental media were collected in accordance with BS 10175.

Samples and were stored within appropriate sample containers and forwarded to an independent analytical laboratory. Samples were placed in containers supplied by the laboratory appropriate to the type of analysis being undertaken and stored in cool boxes with ice packs. All samples were dispatched accompanied by chain of custody documentation. The laboratory selected to perform the analysis is accredited by UKAS to ISO 17025. Internal quality assurance checks are carried out by the laboratory data prior to the laboratory certificates being issued.

Each of the monitoring/sampling wells that were constructed were developed on completion. Prior to sampling, the depth to the resting groundwater level (where present) and base of the monitoring wells were measured using an electronic interface probe, wells were then purged before samples were taken.

### **Testing**

Where soil samples were tested on site for volatile organic compounds (VOCs), testing was completed using a photo-ionisation detector (PID). Each sample was placed into a sealed plastic bag and agitated. The PID was then inserted into the headspace and the total VOC reading recorded. The PID screens for a wide range of VOCs but does not indicate a specific compound; therefore, the results of the PID screening provide a semi-quantitative indication of the concentration of VOCs present in soil pore spaces.

Where relevant testing was undertaken by the laboratory to MCerts standards. Selected samples were scheduled for analysis for a suite of contaminants designed to be reflective of the site's

<sup>7</sup> Environment Agency (2020) Land Contamination: Risk Management

<sup>8</sup> British Standards (2015) Code of Practice for site Investigation BS5930:2015+A1:2020

<sup>9</sup> British Standards (2017) Code of Practice for the Investigation of Potentially Contaminated sites. BS10175:2011 + A2:2017

historical and contemporary uses, and specifically to investigate the PCLs identified in the PRA (as listed in Section 0).

### **Monitoring**

Wells were of appropriate construction for the ground conditions encountered. The well designs are detailed within the appended borehole logs.

Ground gas monitoring was completed using a calibrated monitor. The following parameters were measured:

- Methane (% vol);
- Carbon dioxide (% vol);
- Oxygen (% vol);
- Carbon Monoxide (ppm);
- Hydrogen Sulphide (ppm); and
- Flow rate (l/hr).

Gas flow rates were measured at all monitoring boreholes and the range in flow rates and concentrations were recorded until a steady state was reached or for at least three minute.

## Appendix 5

### Laboratory Testing Results – Summary Tables

| Risks to Groundwater                    |                         |       |        |            | Sample ID            |                     | WS2           | WS3           |
|-----------------------------------------|-------------------------|-------|--------|------------|----------------------|---------------------|---------------|---------------|
|                                         |                         |       |        |            | Depth                |                     | None Supplied | None Supplied |
|                                         |                         |       |        |            | Sample Type          |                     | None Supplied | None Supplied |
|                                         |                         |       |        |            | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                         |                         |       |        |            | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                    | Method                  | Units | LOD    | GAC Source | GAC GW               | No. GAC Exceedances |               |               |
| Metals                                  |                         |       |        |            |                      |                     |               |               |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   | UKTAG      | 5                    | 0                   | 1.31          | 2.42          |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   | RPV        | 4                    | 0                   | < 0.1         | < 0.1         |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    | WFD        | 750                  | 0                   | 200           | 410           |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   | WFD Min TV | 3.75                 | 0                   | 0.08          | < 0.02        |
| Dissolved Calcium #                     | TM30/PM14               | ug/l  | <0.2   |            |                      |                     | 170           | 270           |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   | WFD        | 37.5                 | 0                   | 3.1           | 8.4           |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     | WFD        | 1500                 | 0                   | 7.8           | < 0.5         |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    | DWD        | 200                  | 0                   | NA            | NA            |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | UKTAG      | 5                    | 0                   | 0.7           | 0.4           |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     | UKTAG      | 0.5                  | 0                   | < 0.05        | < 0.05        |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     | WFD        | 15                   | 1                   | 26            | 3.8           |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     | WFD        | 7.5                  | 0                   | 1.5           | 0.8           |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   |            |                      | 0                   | 3.3           | 3.4           |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     | WFD        | 5000                 | 0                   | 12            | 0.8           |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |            |                      | 0                   |               |               |
| PAH MS                                  |                         |       |        |            |                      |                     |               |               |
| Naphthalene #                           | TM4/PM30                | ug/l  | <0.1   | WFD        | 0.075                | 1                   | < 0.01        | 0.47          |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | < 0.01        | < 0.01        |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | < 0.01        | 0.57          |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | < 0.01        | 0.5           |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | < 0.01        | 1.68          |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 1                   | < 0.01        | 0.65          |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | WFD        | 0.075                | 1                   | < 0.01        | 2.22          |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | < 0.01        | 1.91          |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | < 0.01        | 0.76          |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | NA            | NA            |
| Benzo(bk)fluoranthene #                 | TM4/PM30                | ug/l  | <0.008 |            |                      | 0                   | NA            | NA            |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.005                | 1                   | < 0.01        | 0.74          |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 1                   | < 0.01        | 0.33          |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | < 0.01        | < 0.01        |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 1                   | < 0.01        | 0.4           |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 | RPV        | 0.1                  | 1                   | < 0.16        | 12.1          |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | UKTAG      | 0.05                 | 1                   | < 0.01        | 0.88          |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | UKTAG      | 0.05                 | 1                   | < 0.01        | 0.34          |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |            |                      | 0                   | NA            | NA            |
| VOC TICs                                | TM15/PM10               | None  |        |            |                      | 0                   | NA            | NA            |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   | WFD        | 15                   | 0                   | < 1.0         | < 1.0         |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | UKTAG      | 0.5                  | 0                   | < 1.0         | < 1.0         |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | UKTAG      | 350                  | 0                   | < 1.0         | < 1.0         |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     | WHO        | 300                  | 0                   | < 1.0         | < 1.0         |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | WHO        | 500                  | 0                   | < 1.0         | < 1.0         |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | WHO        | 500                  | 0                   | < 1.0         | < 1.0         |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |            |                      | 0                   | NA            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |            |                      | 0                   | NA            | NA            |
| TPH CWG                                 |                         |       |        |            |                      |                     |               |               |
| Aliphatics                              |                         |       |        |            |                      |                     |               |               |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    | WHO        | 15000                | 0                   | < 1.0         | < 1.0         |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    | WHO        | 15000                | 0                   | < 1.0         | < 1.0         |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    | WHO        | 300                  | 0                   | < 1.0         | < 1.0         |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     | WHO        | 300                  | 0                   | < 10          | 200           |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    | WHO        | 300                  | 0                   | < 10          | < 10          |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |            |                      | 0                   | < 10          | < 10          |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |            |                      | 0                   | < 10          | < 10          |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |            |                      | 0                   | < 10          | 200           |
| Aromatics                               |                         |       |        |            |                      |                     |               |               |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | DWS        | 10                   | 0                   | < 1.0         | < 1.0         |
| >EC7-EC8 #                              | TM36/PM12               | ug/l  | <10    | DWS        | 700                  | 0                   | < 1.0         | < 1.0         |
| >EC8-EC10 #                             | TM36/PM12               | ug/l  | <10    | DWS        | 500                  | 0                   | < 1.0         | < 1.0         |
| >EC10-EC12 #                            | TM5/PM16/PM30           | ug/l  | <5     | WHO        | 90                   | 0                   | < 10          | < 10          |
| >EC12-EC16 #                            | TM5/PM16/PM30           | ug/l  | <10    | WHO        | 90                   | 0                   | < 10          | < 10          |
| >EC16-EC21 #                            | TM5/PM16/PM30           | ug/l  | <10    | WHO        | 90                   | 0                   | < 10          | < 10          |
| >EC21-EC35 #                            | TM5/PM16/PM30           | ug/l  | <10    | WHO        | 90                   | 0                   | < 10          | < 10          |
| Total aromatics C5-35 #                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |            |                      | 0                   | < 10          | < 10          |
| Total aliphatics and aromatics(C5-35) # | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |            |                      | 0                   | NA            | NA            |
| Total Phenols HPLC                      | TM26/PM0                | mg/l  | <0.15  | WFD        | 4.08                 | 0                   | < 10          | < 10          |
| Other Inorganics                        |                         |       |        |            |                      |                     |               |               |
| Sulphate as SO4 #                       | TM89/PM0                | mg/l  | <0.5   | WFD        | 188                  | 2                   | 250           | 214           |
| Chloride #                              | TM38/PM0                | mg/l  | <0.3   | WFD        | 188                  | 0                   | NA            | NA            |
| Nitrate as NO3 #                        | TM38/PM0                | mg/l  | <0.2   | WFD        | 37.5                 | 0                   | NA            | NA            |
| Nitrite as NO2 #                        | TM38/PM0                | mg/l  | <0.02  | DWD        | 500                  | 0                   | NA            | NA            |
| Ortho Phosphate as PO4 #                | TM38/PM0                | mg/l  | <0.06  |            |                      | 0                   | NA            | NA            |
| Total Cyanide #                         | TM89/PM0                | mg/l  | <0.01  | DWD        | 50                   | 0                   | < 10          | < 10          |
| Ammoniacal Nitrogen as N #              | TM38/PM0                | mg/l  | <0.03  | DWS        | 0.29                 | 2                   | 100           | 5300          |
| Hexavalent Chromium                     | TM38/PM0                | ug/l  | <6     | UKTAG      | 5                    | 0                   | < 5.0         | < 5.0         |
| Total Dissolved Chromium III            | TM0/PM0                 | ug/l  | <6     |            |                      | 0                   | 3.1           | 8.4           |
| Total Alkalinity as CaCO3 #             | TM75/PM0                | mg/l  | <1     |            |                      | 0                   | 439           | 710           |
| BTEX                                    |                         |       |        |            |                      |                     |               |               |
| MTBE #                                  | TM36/PM12               | ug/l  | <5     | WFD        | 15                   | 0                   | < 1.0         | < 1.0         |
| Benzene #                               | TM36/PM12               | ug/l  | <5     | UKTAG      | 0.5                  | 0                   | < 1.0         | < 1.0         |
| Toluene #                               | TM36/PM12               | ug/l  | <5     | UKTAG      | 350                  | 0                   | < 1.0         | < 1.0         |
| Ethylbenzene #                          | TM36/PM12               | ug/l  | <5     | RPV        | 300                  | 0                   | < 1.0         | < 1.0         |
| m/p-Xylene #                            | TM36/PM12               | ug/l  | <5     | RPV        | 500                  | 0                   | < 1.0         | < 1.0         |
| o-Xylene #                              | TM36/PM12               | ug/l  | <5     | RPV        | 500                  | 0                   | < 1.0         | < 1.0         |
| Phenols                                 |                         |       |        |            |                      |                     |               |               |
| 2-Chlorophenol #                        | TM16/PM30               | ug/l  | <0.5   | UKTAG      | 150                  | 0                   | NA            | NA            |
| 2-Methylphenol #                        | TM16/PM30               | ug/l  | <0.5   |            |                      | 0                   | NA            | NA            |
| 2-Nitrophenol                           | TM16/PM30               | ug/l  | <0.5   |            |                      | 0                   | NA            | NA            |
| 2,4-Dichlorophenol #                    | TM16/PM30               | ug/l  | <1     |            | 100                  | 0                   | NA            | NA            |
| 2,4-Dimethylphenol                      | TM16/PM30               | ug/l  | <0.5   |            |                      | 0                   | NA            | NA            |
| 2,4,5-Trichlorophenol #                 | TM16/PM30               | ug/l  | <1     |            |                      | 0                   | NA            | NA            |

| Risks to Groundwater                      |           |       |      |            | Sample ID            |                     | WS2           | WS3           |
|-------------------------------------------|-----------|-------|------|------------|----------------------|---------------------|---------------|---------------|
|                                           |           |       |      |            | Depth                |                     | None Supplied | None Supplied |
|                                           |           |       |      |            | Sample Type          |                     | None Supplied | None Supplied |
|                                           |           |       |      |            | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                           |           |       |      |            | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                      | Method    | Units | LOD  | GAC Source | GAC GW               | No. GAC Exceedances |               |               |
| 2,4,6-Trichlorophenol                     | TM16/PM30 | ug/l  | <0.5 | RPV        | 200                  | 0                   | NA            | NA            |
| 4-Chloro-3-methylphenol <sup>#</sup>      | TM16/PM30 | ug/l  | <1   | UKTAG      | 350                  | 0                   | NA            | NA            |
| 4-Methylphenol                            | TM16/PM30 | ug/l  | <10  |            |                      | 0                   | NA            | NA            |
| 4-Nitrophenol                             | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| Pentachlorophenol                         | TM16/PM30 | ug/l  | <1   | UKTAG      | 0.05                 | 0                   | NA            | NA            |
| Phenol                                    | TM16/PM30 | ug/l  |      | WFD        | 4.08                 | 0                   | < 0.05        | < 0.05        |
| PAHs                                      |           |       |      |            |                      |                     |               |               |
| 2-Chloronaphthalene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| 2-Methylnaphthalene <sup>#</sup>          | TM16/PM30 | ug/l  |      |            |                      | 0                   | < 0.05        | 0.23          |
| Phthalates                                |           |       |      |            |                      |                     |               |               |
| Bis(2-ethylhexyl) phthalate               | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| Butylbenzyl phthalate                     | TM16/PM30 | ug/l  | <1.5 |            |                      | 0                   | NA            | NA            |
| Di-n-butyl phthalate <sup>#</sup>         | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| Di-n-Octyl phthalate                      | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| Diethyl phthalate <sup>#</sup>            | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| Dimethyl phthalate                        | TM16/PM30 | ug/l  |      |            |                      | 0                   | NA            | NA            |
| Other SVOCs                               |           |       |      |            |                      |                     |               |               |
| 1,2,4-Trichlorobenzene <sup>#</sup>       | TM16/PM30 | ug/l  | <1   | UKTAG      | 35                   | 0                   | < 0.05        | < 0.05        |
| 1,2-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | RPV        | 600                  | 0                   | < 0.05        | < 0.05        |
| 1,3-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | < 0.05        | < 0.05        |
| 1,4-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | RPV        | 800                  | 0                   | < 0.05        | < 0.05        |
| 2,4-Dinitrotoluene <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | < 0.05        | < 0.05        |
| 2,6-Dinitrotoluene                        | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | < 0.05        | < 0.05        |
| 2-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | NA            | NA            |
| 3-Nitroaniline                            | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| 4-Bromophenylphenylether <sup>#</sup>     | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| 4-Chloroaniline                           | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| 4-Chlorophenylphenylether <sup>#</sup>    | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | NA            | NA            |
| 4-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | < 0.05        | < 0.05        |
| Azobenzene <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | < 0.05        | < 0.05        |
| Bis(2-chloroethoxy)methane <sup>#</sup>   | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | < 0.05        | < 0.05        |
| Bis(2-chloroethyl)ether <sup>#</sup>      | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | < 0.05        | < 0.05        |
| Carbazole <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | < 0.05        | 0.41          |
| Dibenzofuran <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | < 0.05        | 0.3           |
| Hexachlorobenzene <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | UKTAG      | 0.05                 | 0                   | < 0.05        | < 0.05        |
| Hexachlorobutadiene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | UKTAG      | 0.05                 | 0                   | < 0.05        | < 0.05        |
| Hexachlorocyclopentadiene                 | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| Hexachloroethane <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | < 0.05        | < 0.05        |
| Isophorone <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | < 0.05        | < 0.05        |
| Nitrobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <0   |            |                      | 0                   | < 0.05        | < 0.05        |
| N-nitrosodi-n-propylamine <sup>#</sup>    | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | NA            | NA            |
| Pyrene                                    | ISO 17025 | ug/l  | 0.01 |            |                      |                     | < 0.01        | 1.9           |
| Surrogate Recovery 2-Fluorobiphenyl       | TM16/PM30 | %     | <0   |            |                      | 0                   | NA            | NA            |
| Surrogate Recovery p-Terphenyl-d14        | TM16/PM30 | %     |      |            |                      | 0                   | NA            | NA            |
| VOC MS                                    |           |       |      |            |                      |                     |               |               |
| 1,1,1,2-Tetrachloroethane <sup>#</sup>    | TM15/PM10 | ug/l  | <2   |            |                      | 0                   | < 1.0         | < 1.0         |
| 1,1,1-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   | WFD        | 200                  | 0                   | < 1.0         | < 1.0         |
| 1,1,2,2-Tetrachloroethane                 | TM15/PM10 | ug/l  | <4   |            |                      | 0                   | < 1.0         | < 1.0         |
| 1,1,2-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   | DWS        | 5                    | 0                   | < 1.0         | < 1.0         |
| 1,1-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <3   | WFD        | 7                    | 0                   | < 1.0         | < 1.0         |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup> | TM15/PM10 | ug/l  | <3   | RPV        | 7                    | 0                   | < 1.0         | < 1.0         |
| 1,1-Dichloropropene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| 1,2,3-Trichlorobenzene                    | TM15/PM10 | ug/l  | <3   | WFD        | 0.01                 | 0                   | < 1.0         | < 1.0         |
| 1,2,3-Trichloropropane <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| 1,2,4-Trichlorobenzene                    | TM15/PM10 | ug/l  | <3   | DWS        | 35                   | 0                   | < 1.0         | < 1.0         |
| 1,2,4-Trimethylbenzene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| 1,2-Dibromo-3-chloropropane               | TM15/PM10 | ug/l  | <2   | DWS        | 0.2                  | 0                   | < 1.0         | < 1.0         |
| 1,2-Dibromoethane <sup>#</sup>            | TM15/PM10 | ug/l  | <2   | DWS        | 0.4                  | 0                   | < 1.0         | < 1.0         |
| 1,2-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   | DWS        | 600                  | 0                   | < 1.0         | < 1.0         |
| 1,2-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   | WFD        | 3                    | 0                   | < 1.0         | < 1.0         |
| 1,2-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | RPV        | 5                    | 0                   | < 1.0         | < 1.0         |
| 1,3,5-Trimethylbenzene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| 1,3-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| 1,3-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | DWS        | 20                   | 0                   | < 1.0         | < 1.0         |
| 1,4-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   | DWS        | 80                   | 0                   | < 1.0         | < 1.0         |
| 2,2-Dichloropropane                       | TM15/PM10 | ug/l  | <1   |            |                      | 0                   | < 1.0         | < 1.0         |
| 2-Chlorotoluene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| 4-Chlorotoluene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| 4-Isopropyltoluene <sup>#</sup>           | TM15/PM10 | ug/l  | <3   |            |                      | 0                   |               |               |
| Benzene <sup>#</sup>                      | TM15/PM10 | ug/l  | <0.5 | UKTAG      | 0.5                  | 0                   | < 1.0         | < 1.0         |
| Bromobenzene <sup>#</sup>                 | TM15/PM10 | ug/l  | <2   |            |                      | 0                   | < 1.0         | < 1.0         |
| Bromochloromethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   |            |                      | 0                   |               |               |
| Bromodichloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | WFD        | 60                   | 0                   | < 1.0         | < 1.0         |
| Bromoform <sup>#</sup>                    | TM15/PM10 | ug/l  | <2   |            |                      | 0                   |               |               |
| Bromomethane                              | TM15/PM10 | ug/l  | <1   |            |                      | 0                   | < 1.0         | < 1.0         |
| Carbon tetrachloride <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | UKTAG      | 1.5                  | 0                   |               |               |
| Chlorobenzene <sup>#</sup>                | TM15/PM10 | ug/l  | <2   | RPV        | 100                  | 0                   | < 1.0         | < 1.0         |
| Chloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| Chloroform <sup>#</sup>                   | TM15/PM10 | ug/l  | <2   | WFD        | 1.29                 | 0                   | < 1.0         | < 1.0         |
| Chloromethane <sup>#</sup>                | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | < 1.0         | < 1.0         |
| cis-1-2-Dichloroethene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   | WFD        | 50                   | 0                   | < 1.0         | < 1.0         |
| cis-1-3-Dichloropropene                   | TM15/PM10 | ug/l  | <2   | WFD        | 20                   | 0                   | < 1.0         | < 1.0         |
| Dibromochloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | DWS        | 100                  | 0                   | < 1.0         | < 1.0         |
| Dibromomethane <sup>#</sup>               | TM15/PM10 | ug/l  | <3   | RPV        | 400                  | 0                   |               |               |
| Dichlorodifluoromethane                   | TM15/PM10 | ug/l  | <2   |            |                      | 0                   |               |               |
| Dichloromethane (DCM) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | RPV        | 5                    | 0                   | < 1.0         | < 1.0         |
| Ethylbenzene <sup>#</sup>                 | TM15/PM10 | ug/l  | <1   | RPV        | 300                  | 0                   | < 1.0         | < 1.0         |

| Risks to Groundwater                     |             |       |       |            | Sample ID            |                     | WS2           | WS3           |
|------------------------------------------|-------------|-------|-------|------------|----------------------|---------------------|---------------|---------------|
|                                          |             |       |       |            | Depth                |                     | None Supplied | None Supplied |
|                                          |             |       |       |            | Sample Type          |                     | None Supplied | None Supplied |
|                                          |             |       |       |            | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                          |             |       |       |            | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                     | Method      | Units | LOD   | GAC Source | GAC GW               | No. GAC Exceedances |               |               |
| Hexachlorobutadiene                      | TM15/PM10   | ug/l  | <3    | UKTAG      | 0.05                 | 0                   | <1.0          | <1.0          |
| Isopropylbenzene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <1.0          | <1.0          |
| m/p-Xylene <sup>#</sup>                  | TM15/PM10   | ug/l  | <2    | DWS        | 500                  | 0                   | <1.0          | <1.0          |
| Methyl Tertiary Butyl Ether <sup>#</sup> | TM15/PM10   | ug/l  | <0.1  |            |                      | 0                   | <1.0          | <1.0          |
| Naphthalene                              | TM15/PM10   | ug/l  | <2    | DWS        | 0.075                | 0                   |               |               |
| n-Butylbenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <3    |            |                      | 0                   |               |               |
| o-Xylene <sup>#</sup>                    | TM15/PM10   | ug/l  | <1    | DWS        | 500                  | 0                   | <1.0          | <1.0          |
| Propylbenzene <sup>#</sup>               | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <1.0          | <1.0          |
| sec-Butylbenzene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <1.0          | <1.0          |
| Styrene                                  | TM15/PM10   | ug/l  | <2    | DWS        | 20                   | 0                   | <1.0          | <1.0          |
| Surrogate Recovery 4-Bromofluorobenzene  | TM15/PM10   | %     | <0    |            |                      | 0                   |               |               |
| Surrogate Recovery Toluene D8            | TM15/PM10   | %     | <0    |            |                      | 0                   |               |               |
| tert-Butylbenzene <sup>#</sup>           | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <1.0          | <1.0          |
| Tetrachloroethene (PCE) <sup>#</sup>     | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <1.0          | <1.0          |
| Toluene <sup>#</sup>                     | TM15/PM10   | ug/l  | <5    | UKTAG      | 350                  | 0                   | <1.0          | <1.0          |
| trans-1-2-Dichloroethene <sup>#</sup>    | TM15/PM10   | ug/l  | <3    | WFD        | 50                   | 0                   | <1.0          | <1.0          |
| trans-1-3-Dichloropropene                | TM15/PM10   | ug/l  | <2    |            |                      | 0                   | <1.0          | <1.0          |
| Trichloroethene (TCE) <sup>#</sup>       | TM15/PM10   | ug/l  | <3    | UKTAG      | 5                    | 0                   | <1.0          | <1.0          |
| Trichlorofluoromethane <sup>#</sup>      | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <1.0          | <1.0          |
| Vinyl Chloride <sup>#</sup>              | TM15/PM10   | ug/l  | <0.1  | UKTAG      | 0.25                 | 0                   | <1.0          | <1.0          |
|                                          |             |       |       |            |                      |                     |               |               |
| VOCs TICS Compounds Name                 |             |       | 10    |            |                      | 0                   | ND            | ND            |
| VOC% Match                               |             | %     | 10    |            |                      | 0                   | 0             | 0             |
| PFAAS                                    |             |       |       |            |                      |                     |               |               |
| PFBA                                     | TM135/PM121 | ug/l  | <0.05 |            | 10                   | 0                   | NA            | NA            |
| PFPeA                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFHxA                                    | TM135/PM121 | ug/l  | <0.05 |            | 6                    | 0                   | NA            | NA            |
| PFHpA                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFOA                                     | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFNA                                     | TM135/PM121 | ug/l  | <0.05 |            | 0.06                 | 0                   | NA            | NA            |
| PFDA                                     | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFUnA                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFDaA                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFTTrDA                                  | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFTeDA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFHxDA                                   | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| PFODA                                    | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| PFBS                                     | TM135/PM121 | ug/l  | <0.05 |            | 6                    | 0                   | NA            | NA            |
| PFPeS                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFHxS                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFHpS                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFOS                                     | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFNS                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFDS                                     | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | NA            | NA            |
| PFUnDS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFDaDS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFTTrDS                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| HFPO-DA (Gen X)                          | TM135/PM121 | ug/l  | <0.05 |            | 0.06                 | 0                   | NA            | NA            |
| HFPO-TA                                  | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| DONA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFMOPrA                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| NFDHA                                    | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| PFMOBA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFECHS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| 3:3 FTCA                                 | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| 5:3 FTCA                                 | TM135/PM121 | ug/l  | <0.5  |            |                      |                     | NA            | NA            |
| 7:3 FTCA                                 | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| PFEESA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| 9CI-PF3ONS                               | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| 11CI-PF3OUdS                             | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| 4:2 FTS                                  | TM135/PM121 | ug/l  | <0.2  |            |                      |                     | NA            | NA            |
| 6:2 FTS                                  | TM135/PM121 | ug/l  | <0.2  |            | 0.1                  | 0                   | NA            | NA            |
| 8:2 FTS                                  | TM135/PM121 | ug/l  | <0.2  |            | 0.2                  | 0                   | NA            | NA            |
| FBSA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| FHxSA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| FOSA                                     | TM135/PM121 | ug/l  | <1    |            | 0.1                  | 0                   | NA            | NA            |
| N-MeFOSA                                 | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| N-EtFOSA                                 | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| Me-FOSE                                  | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| Et-FOSE                                  | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| N-MeFOSAA                                | TM135/PM121 | ug/l  | <1    |            | 0.07                 | 0                   | NA            | NA            |
| N-EtFOSAA                                | TM135/PM121 | ug/l  | <1    |            | 0.07                 | 0                   | NA            | NA            |
| 8:2diPAP                                 | TM135/PM121 | ug/l  | <0.2  |            |                      |                     | NA            | NA            |
| FOUEA                                    | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| Total PFAS                               |             | ug/l  |       |            | 0.5                  | 0                   | NA            | NA            |

|                                 |                |          |        |            |                      |                     |               |               |
|---------------------------------|----------------|----------|--------|------------|----------------------|---------------------|---------------|---------------|
| <div>Risks to Groundwater</div> |                |          |        |            | Sample ID            |                     | WS2           | WS3           |
|                                 |                |          |        |            | Depth                |                     | None Supplied | None Supplied |
|                                 |                |          |        |            | Sample Type          |                     | None Supplied | None Supplied |
|                                 |                |          |        |            | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                 |                |          |        |            | Sample Received Date |                     | None Supplied | None Supplied |
| Test                            | Method         | Units    | LOD    | GAC Source | GAC GW               | No. GAC Exceedances |               |               |
|                                 |                |          |        |            |                      |                     |               |               |
| 1,4-Dioxane*                    | Subcontracted/ | ug/l     | <0.07  |            | 50                   | 0                   | NA            | NA            |
| BOD (Settled) #                 | TM58/PM0       | mg/l     | <1     |            |                      | 0                   | NA            | NA            |
| COD (Settled) #                 | TM57/PM0       | mg/l     | <7     |            |                      | 0                   | NA            | NA            |
| Dissolved Organic Carbon #      | TM60/PM0       | mg/l     | <2     |            |                      | 0                   | 8.21          | 21.4          |
| Free Ammonia as NH3             | TM176/PM0      | mg/l     | <0.007 |            |                      | 0                   | 120           | 6500          |
| pH #                            | TM73/PM0       | pH units | <0.01  |            |                      | 0                   | 7.1           | 6.9           |



| Risks to Groundwater                |           |       |        |            |        |                     | Sample ID            |        | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         | SW01         | SW02         |              |              |              |               |               |            |
|-------------------------------------|-----------|-------|--------|------------|--------|---------------------|----------------------|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|------------|
|                                     |           |       |        |            |        |                     | Depth                |        | 2.00         | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         | SURFACE      | SURFACE      |              |              |               |               |            |
|                                     |           |       |        |            |        |                     | Sample Type          |        | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water |            |
|                                     |           |       |        |            |        |                     | Sampled Date         |        | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 29/09/2023    | 29/09/2023    |            |
|                                     |           |       |        |            |        |                     | Sample Received Date |        | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023    | 29/09/2023    | 29/09/2023 |
| Test                                | Method    | Units | LOD    | GAC Source | GAC GW | No. GAC Exceedances |                      |        |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |            |
| Metals                              |           |       |        |            |        |                     |                      |        |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |            |
| Dissolved Arsenic #                 | TM30/PM14 | ug/l  | <2.5   | UKTAG      | 5      | 7                   | 2.8                  | 5      | 9.9          | 13.1         | 5.2          | <2.5         | <2.5         | <2.5         | 26.9         | <2.5         | 18.3         | 30.3         | <2.5         | 29.2         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         |              |               |               |            |
| Dissolved Beryllium                 | TM30/PM14 | ug/l  | <0.5   | RPV        | 4      | 0                   | <0.5                 | <0.5   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |              |              |               |               |            |
| Dissolved Boron                     | TM30/PM14 | ug/l  | <12    | WFD        | 750    | 6                   | 267                  | 184    | 264          | 1814         | 152          | 165          | 222          | 569          | 508          | 578          | 211          | 70           | 1108         | 71           | 2244         | 1923         | 2104         | 960          | 584          | 61           | 53           |              |              |              |              |               |               |            |
| Dissolved Cadmium #                 | TM30/PM14 | ug/l  | <0.5   | WFD Min TV | 3.75   | 0                   | <0.5                 | <0.5   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |              |              |               |               |            |
| Dissolved Calcium #                 | TM30/PM14 | ug/l  | <0.2   |            |        | 0                   | -                    | 130.6  | -            | -            | 254.5        | -            | 166.2        | 358.2        | 564.8        | 284          | 363.4        | -            | -            | -            | 194.5        | 294.2        | -            | -            | 292.6        | 102.3        | 109.8        |              |              |              |              |               |               |            |
| Total Dissolved Chromium #          | TM30/PM14 | ug/l  | <1.5   | WFD        | 37.5   | 0                   | <1.5                 | <1.5   | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | 4.5          | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         |              |              |               |               |            |
| Dissolved Copper #                  | TM30/PM14 | ug/l  | <7     | WFD        | 1500   | 0                   | <7                   | <7     | 14           | <7           | <7           | <7           | <7           | <7           | 41           | <7           | 39           | 17           | 46           | <7           | 31           | <7           | 12           | <7           | 12           | <7           | <7           | <7           | <7           |              |              |               |               |            |
| Total Dissolved Iron #              | TM30/PM14 | ug/l  | <20    | DWD        | 200    | 17                  | 236                  | 264    | 8534         | 21474        | 3971         | 55           | 106          | 28260        | 4827         | 29243        | 12531        | 33388        | 3744         | 22159        | 2477         | 7819         | 1486         | 6826         | 1080         | 30           | <20          |              |              |              |              |               |               |            |
| Dissolved Lead #                    | TM30/PM14 | ug/l  | <5     | UKTAG      | 5      | 0                   | <5                   | <5     | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |              |              |               |               |            |
| Dissolved Magnesium #               | TM30/PM14 | ug/l  | <0.1   |            |        | 0                   | -                    | 3.8    | -            | -            | 14.6         | -            | 12.8         | 33.6         | 41.5         | 23.7         | 20.3         | -            | -            | -            | 30.9         | 38.9         | -            | -            | 26.4         | 5.1          | 4.3          |              |              |              |              |               |               |            |
| Dissolved Mercury #                 | TM30/PM14 | ug/l  | <1     | UKTAG      | 0.5    | 0                   | <1                   | <1     | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           |              |              |               |               |            |
| Dissolved Nickel #                  | TM30/PM14 | ug/l  | <2     | WFD        | 15     | 2                   | 3                    | <2     | 4            | 2            | 2            | 4            | 28           | <2           | <2           | <2           | <2           | 8            | 3            | 9            | <2           | <2           | <2           | 34           | <2           | <2           | <2           | <2           |              |              |              |               |               |            |
| Dissolved Potassium #               | TM30/PM14 | mg/l  | <0.1   |            |        | 0                   | -                    | 25.2   | -            | -            | 8            | -            | 6.2          | 30.6         | 25.4         | 16.8         | 4.5          | -            | -            | -            | 31.7         | 24           | -            | -            | 30.3         | 8.2          | 8.8          |              |              |              |              |               |               |            |
| Dissolved Selenium #                | TM30/PM14 | ug/l  | <3     | WFD        | 7.5    | 0                   | <3                   | <3     | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           |              |              |               |               |            |
| Dissolved Sodium #                  | TM30/PM14 | mg/l  | <0.1   | WFD        | 150000 | 0                   | -                    | 29.6   | -            | -            | 69.6         | -            | 48.2         | 29.4         | 52.6         | 56.3         | 98.4         | -            | -            | -            | 146.5        | 57.2         | -            | -            | 26.4         | 42.5         | 46.7         |              |              |              |              |               |               |            |
| Dissolved Vanadium #                | TM30/PM14 | ug/l  | <1.5   |            |        | 0                   | 7                    | 4.9    | 2.5          | 5.8          | 2.6          | 2.2          | <1.5         | 5.1          | 3.2          | 4.8          | 3.9          | 5            | 2.7          | 11.9         | 3.8          | 3.7          | 7.1          | 2.9          | 2.5          | 1.6          | 1.9          |              |              |              |              |               |               |            |
| Dissolved Zinc #                    | TM30/PM14 | ug/l  | <3     | WFD        | 5000   | 0                   | 7                    | <3     | 6            | 3            | <3           | 15           | 217          | 7            | 5            | 7            | 4            | 5            | <3           | 9            | 5            | 3            | <3           | 413          | <3           | 11           | 10           |              |              |              |              |               |               |            |
| Total Hardness Dissolved (as CaCO3) | TM30/PM14 | mg/l  | <1     |            |        | 0                   | 403                  | 342    | 555          | 1156         | 698          | 391          | 469          | 1037         | 1586         | 810          | 994          | 738          | 844          | 539          | 616          | 899          | 922          | 947          | 842          | 277          | 293          |              |              |              |              |               |               |            |
| PAH MS                              |           |       |        |            |        |                     |                      |        |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |            |
| Naphthalene #                       | TM4/PM30  | ug/l  | <0.1   | WFD        | 0.075  | 1                   | <0.01                | <0.01  | <0.01        | 0.05         | <0.01        | <0.01        | <0.01        | 0.23         | 0.02         | 0.04         | 0.03         | 0.02         | <0.01        | 0.01         | <0.01        | <0.01        | 0.03         | 0.01         | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |              |              |               |               |            |
| Acenaphthylene #                    | TM4/PM30  | ug/l  | <0.005 |            |        |                     | <0.005               | <0.005 | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.018        | <0.005       | <0.005       | 0.028        | <0.005       | <0.005       | <0.005       | 0.044        | <0.005       | 0.014        | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| Acenaphthene #                      | TM4/PM30  | ug/l  | <0.005 |            |        |                     | 0.165                | 0.029  | 0.013        | 0.148        | <0.005       | <0.005       | <0.005       | 1.14         | 0.334        | 0.608        | 0.007        | 0.014        | 2.5          | <0.005       | 0.146        | 0.217        | 1.59         | <0.005       | 1.31         | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| Fluorene #                          | TM4/PM30  | ug/l  | <0.005 |            |        |                     | <0.005               | <0.005 | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | 0.864        | 0.013        | 0.318        | <0.005       | 0.008        | 1.31         | <0.005       | <0.005       | 0.045        | 0.286        | <0.005       | 0.145        | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| Phenanthrene #                      | TM4/PM30  | ug/l  | <0.005 |            |        | 0                   | 0.024                | <0.005 | 0.008        | 0.042        | <0.005       | <0.005       | <0.005       | 0.332        | 0.009        | 0.02         | <0.005       | 0.007        | 0.009        | 0.007        | <0.005       | 0.017        | <0.005       | 0.011        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| Anthracene #                        | TM4/PM30  | ug/l  | <0.005 | UKTAG      | 0.05   | 2                   | 0.011                | <0.005 | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | 0.093        | 0.007        | 0.025        | <0.005       | <0.005       | 0.075        | <0.005       | <0.005       | <0.005       | <0.005       | 0.018        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| Fluoranthene #                      | TM4/PM30  | ug/l  | <0.005 | WFD        | 0.075  | 4                   | 0.161                | <0.005 | 0.013        | <0.025       | <0.005       | 0.008        | <0.005       | 0.329        | 0.064        | <0.005       | <0.005       | 0.006        | 0.426        | <0.005       | 0.031        | 0.008        | 0.012        | 0.007        | 0.566        | <0.005       | 0.006        |              |              |              |              |               |               |            |
| Pyrene #                            | TM4/PM30  | ug/l  | <0.005 |            |        | 0                   | 0.181                | <0.005 | 0.012        | <0.025       | <0.005       | 0.009        | <0.005       | 0.228        | 0.05         | 0.1          | <0.005       | 0.006        | 0.327        | <0.005       | 0.045        | 0.007        | 0.021        | 0.008        | 0.204        | <0.005       | 0.006        |              |              |              |              |               |               |            |
| Benzo(a)anthracene #                | TM4/PM30  | ug/l  | <0.005 |            |        | 0                   | 0.052                | <0.005 | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | 0.013        | <0.005       | <0.005       | <0.005       | <0.005       | 0.034        | <0.005       | <0.005       | <0.005       | <0.005       | 0.008        | 0.034        | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| Chrysene #                          | TM4/PM30  | ug/l  | <0.005 |            |        | 0                   | 0.097                | <0.005 | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | 0.033        | <0.005       | <0.005       | <0.005       | <0.005       | 0.058        | <0.005       | <0.005       | <0.005       | <0.005       | 0.056        | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |               |               |            |
| Benzo(bk)fluoranthene #             | TM4/PM30  | ug/l  | <0.008 |            |        | 0                   | 0.25                 | <0.01  | 0.02         | <0.05        | <0.01        | <0.01        | <0.01        | 0.01         | <0.01        | 0.02         | <0.01        | <0.01        | 0.01         | <0.01        | <0.01        | <0.01        | <0.01        | 0.05         | <0.01        | <0.01        | <0.01        | <0.01        |              |              |              |               |               |            |
| Benzo(a)pyrene #                    | TM4/PM30  | ug/l  | <0.005 | UKTAG      | 0.005  | 1                   | 0.138                | <0.002 | 0.009        | <0.010       | <0.002       | <0.002       | <0.002       | 0.005        | <0.002       | 0.013        | <0.002       | <0.002       | 0.011        | <0.002       | <0.002       | <0.002       | <0.002       | 0.031        | <0.002       | 0.002        | <0.002       | <0.002       | <0.002       |              |              |               |               |            |
| Indeno(123cd)pyrene #               | TM4/PM30  | ug/l  | <0.005 | UKTAG      | 0.05   | 1                   | 0.106                | <0.005 | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.011        | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |               |               |            |
| Dibenzo(ah)anthracene #             | TM4/PM30  | ug/l  | <0.005 |            |        | 0                   | <0.005               | <0.005 | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |               |               |            |
| Benzo(ghi)perylene #                | TM4/PM30  | ug/l  | <0.005 | UKTAG      | 0.05   | 1                   | 0.156                | <0.005 | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| PAH 16 Total #                      | TM4/PM30  | ug/l  | <0.173 | RPV        | 0.1    | 9                   | 1.337                | <0.082 | <0.082       | <0.410       | <0.082       | <0.082       | <0.082       | 3.281        | 0.497        | 1.165        | <0.082       | <0.082       | 4.789        | <0.082       | 0.222        | 0.294        | 1.983        | <0.082       | 2.437        | <0.082       | <0.082       | <0.082       | <0.082       |              |              |               |               |            |
| Benzo(b)fluoranthene                | TM4/PM30  | ug/l  | <0.008 | UKTAG      | 0.05   | 1                   | 0.176                | <0.005 | 0.014        | <0.025       | <0.005       | <0.005       | <0.005       | 0.014        | <0.005       | 0.015        | <0.005       | <0.005       | 0.011        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.03         | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| Benzo(k)fluoranthene                | TM4/PM30  | ug/l  | <0.008 | UKTAG      | 0.05   | 1                   | 0.07                 | <0.005 | 0.006        | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.018        | <0.005       | <0.005       | <0.005       | <0.005       |              |              |               |               |            |
| PAH Surrogate % Recovery            | TM4/PM30  | %     | <0     |            |        | 0                   |                      |        |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |            |
| Methyl Tertiary Butyl Ether #       | TM15/PM10 | ug/l  | <0.1   | WFD        | 15     | 0                   | <5                   | <5     | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <1           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <0.1         | <5           | <5           |              |              |              |               |               |            |
| Benzene #                           | TM15/PM10 | ug/l  | <0.5   | UKTAG      | 0.5    | 0                   | <5                   | <5     | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <0           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <0.5         | <5           | <5           |              |              |               |               |            |
| Toluene #                           | TM15/PM10 | ug/l  | <5     | UKTAG      | 350    | 0                   | <5                   | <5     | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <1           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | &            |              |              |              |              |              |               |               |            |

| Risks to Groundwater         |           |          |       |            |         |                     | Sample ID            | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         | SW01         | SW02         |              |              |              |               |               |
|------------------------------|-----------|----------|-------|------------|---------|---------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
|                              |           |          |       |            |         |                     | Depth                | 2.00         | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         | SURFACE      | SURFACE      |              |              |              |               |               |
|                              |           |          |       |            |         |                     | Sample Type          | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water |
|                              |           |          |       |            |         |                     | Sampled Date         | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 29/09/2023    | 29/09/2023    |
|                              |           |          |       |            |         |                     | Sample Received Date | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023    | 29/09/2023    |
| Test                         | Method    | Units    | LOD   | GAC Source | GAC GW  | No. GAC Exceedances |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Metals                       |           |          |       |            |         |                     |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Total Dissolved Chromium III | TM0/PM0   | ug/l     | <6    |            |         | 0                   | <6                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           |              |              |              |              |               |               |
| Total Alkalinity as CaCO3 #  | TM75/PM0  | mg/l     | <1    |            |         | 0                   | 478                  | 164          | 1470         | 1242         | 670          | 330          | 516          | 1196         | 1282         | 894          | 964          | 776          | 950          | 642          | 796          | 896          | 1096         | 892          | 876          | 230          | 256          |              |              |              |              |               |               |
| Sulphide                     | TM107/PM0 | mg/l     | <0.01 |            |         | 0                   | -                    | 0.01         | -            | -            | <0.01        | -            | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | -            | -            | -            | <0.01        | <0.01        | -            | -            | <0.01        | <0.01        | <0.01        |              |              |              |              |               |               |
| BOD (Settled) #              | TM58/PM0  | mg/l     | <1    |            |         | 0                   | 5                    | 4            | 7            | 22           | 9            | 3            | 5            | 21           | 11           | 25           | 19           | 17           | 16           | 26           | 18           | 13           | 21           | -            | 20           | <1           | 1            |              |              |              |              |               |               |
| COD (Settled) #              | TM57/PM0  | mg/l     | <7    |            |         | 0                   | 52                   | 61           | 38           | 114          | 57           | 33           | 31           | 74           | 112          | 53           | 78           | 63           | 85           | 118          | 139          | 80           | 122          | -            | 55           | 17           | <7           |              |              |              |              |               |               |
| Dissolved Organic Carbon #   | TM60/PM0  | mg/l     | <2    |            |         | 0                   | 15                   | 19           | 9            | 16           | 7            | 6            | 6            | 12           | 29           | <2           | <2           | 25           | 19           | 16           | 30           | 8            | 13           | 15           | 5            | <2           | <2           |              |              |              |              |               |               |
| pH #                         | TM73/PM0  | pH units | <0.01 | DWD        | 6.5-9.5 | 0                   | 7.78                 | 7.88         | 7.64         | 7.49         | 7.56         | 7.54         | 7.6          | 7.18         | 7.44         | 7.15         | 7.45         | 7.32         | 7.56         | 7.46         | 7.91         | 7.51         | 7.57         | 7.69         | 7.65         | 8.15         | 8.17         |              |              |              |              |               |               |
| Phenols                      |           |          |       |            |         |                     |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| 2-Chlorophenol #             | TM16/PM30 | ug/l     | <0.5  |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 2-Methylphenol #             | TM16/PM30 | ug/l     | <0.5  |            |         | 0                   |                      | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              |              | <0.5         | <0.5         |              |              |              |              |              |               |               |
| 2-Nitrophenol                | TM16/PM30 | ug/l     | <0.5  |            |         | 0                   |                      | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              |              | <0.5         | <0.5         |              |              |              |              |              |               |               |
| 2,4-Dichlorophenol #         | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              |              | <0.5         | <0.5         |              |              |              |              |              |               |               |
| 2,4-Dimethylphenol           | TM16/PM30 | ug/l     | <0.5  |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 2,4,5-Trichlorophenol #      | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              |              | <0.5         | <0.5         |              |              |              |              |              |               |               |
| 2,4,6-Trichlorophenol        | TM16/PM30 | ug/l     | <0.5  | WHO        | 200     | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 4-Chloro-3-methylphenol #    | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              |              | <0.5         | <0.5         |              |              |              |              |              |               |               |
| 4-Methylphenol               | TM16/PM30 | ug/l     | <10   |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | 2            |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 4-Nitrophenol                | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <10          |              |              | <10          |              | <10          | <10          |              | <10          | <10          |              | <10          |              | <10          | <10          |              |              | <10          | <10          |              |              |              |              |              |               |               |
| Pentachlorophenol            | TM16/PM30 | ug/l     | <1    | WHO        | 9       | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| Phenol                       | TM16/PM30 | ug/l     |       |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| PAHs                         |           |          |       |            |         |                     |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| 2-Chloronaphthalene #        | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 2-Methylnaphthalene #        | TM16/PM30 | ug/l     |       |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| Phthalates                   |           |          |       |            |         |                     |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Bis(2-ethylhexyl) phthalate  | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <5           |              |              | <5           |              | <5           | 6            |              | <5           | <5           |              | <5           |              | <5           | <5           |              |              | <5           | <5           |              |              |              |              |              |               |               |
| Butylbenzyl phthalate        | TM16/PM30 | ug/l     | <1.5  |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| Di-n-butyl phthalate #       | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <1.5         |              |              | <1.5         |              | <1.5         | <1.5         |              | <1.5         | <1.5         |              | <1.5         |              | <1.5         | <1.5         |              |              | <1.5         | <1.5         |              |              |              |              |              |               |               |
| Di-n-Octyl phthalate         | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| Diethyl phthalate #          | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| Dimethyl phthalate           | TM16/PM30 | ug/l     |       |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| Other SVOCs                  |           |          |       |            |         |                     |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| 1,2-Dichlorobenzene #        | TM16/PM30 | ug/l     | <1    | WHO        | 1000    | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 1,2,4-Trichlorobenzene #     | TM16/PM30 | ug/l     | <1    | WHO        | 70      | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 1,3-Dichlorobenzene #        | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 1,4-Dichlorobenzene #        | TM16/PM30 | ug/l     | <1    | WHO        | 300     | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 2-Nitroaniline               | TM16/PM30 | ug/l     | <0.5  |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 2,4-Dinitrotoluene #         | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              |              | <0.5         | <0.5         |              |              |              |              |              |               |               |
| 2,6-Dinitrotoluene           | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 3-Nitroaniline               | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |              |              |              |              |               |               |
| 4-Bromophenylphenylether #   | TM16/PM30 | ug/l     | <1    |            |         | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              |              |              |              |              |              |              |              |               |               |

| Risks to Groundwater           |           |       |      |            |        |                     | Sample ID            | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         | SW01         | SW02          |               |
|--------------------------------|-----------|-------|------|------------|--------|---------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
|                                |           |       |      |            |        |                     | Depth                | 2.00         | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         | SURFACE      | SURFACE       |               |
|                                |           |       |      |            |        |                     | Sample Type          | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water |
|                                |           |       |      |            |        |                     | Sampled Date         | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 29/09/2023    | 29/09/2023    |
|                                |           |       |      |            |        |                     | Sample Received Date | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023    | 29/09/2023    |
| Test                           | Method    | Units | LOD  | GAC Source | GAC GW | No. GAC Exceedances |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Metals                         |           |       |      |            |        |                     |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Chloroethane #                 | TM15/PM10 | ug/l  | <3   |            |        | 0                   |                      | <3           |              |              | <3           |              | <3           | 98           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              | <3           | <3           |              |               |               |
| Trichlorofluoromethane #       | TM15/PM10 | ug/l  | <3   |            |        | 0                   |                      | <3           |              |              | <3           |              | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              |              | <3           | <3           |              |               |               |
| 1,1-Dichloroethene (1,1 DCE) # | TM15/PM10 | ug/l  | <3   | RPV        | 7      | 0                   |                      | <3           |              |              | <3           |              | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              |              | <3           | <3           |              |               |               |
| Dichloromethane (DCM) #        | TM15/PM10 | ug/l  | <3   | RPV        | 5      | 0                   |                      | <3           |              |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              | <3           | <3           |              |               |               |
| trans-1-2-Dichloroethene #     | TM15/PM10 | ug/l  | <3   | WFD        | 50     | 0                   |                      | <3           |              |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              |              | <3           | <3           |               |               |
| 1,1-Dichloroethane #           | TM15/PM10 | ug/l  | <3   | WFD        | 7      | 0                   |                      | <3           |              |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              | <3           | <3           |              |               |               |
| cis-1-2-Dichloroethene #       | TM15/PM10 | ug/l  | <3   | WFD        | 50     | 0                   |                      | <3           |              |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              | <3           | <3           |              |               |               |
| 2,2-Dichloropropane            | TM15/PM10 | ug/l  | <1   |            |        | 0                   |                      | <1           |              |              | <1           |              | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              |              | <1           | <1           |              |               |               |
| Bromochloromethane #           | TM15/PM10 | ug/l  | <2   |            |        | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Chloroform #                   | TM15/PM10 | ug/l  | <2   | WFD        | 1.29   | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| 1,1,1-Trichloroethane #        | TM15/PM10 | ug/l  | <2   | WFD        | 200    | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| 1,1-Dichloropropene #          | TM15/PM10 | ug/l  | <3   |            |        | 0                   |                      | <3           |              |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              | <3           | <3           |              |               |               |
| Carbon tetrachloride #         | TM15/PM10 | ug/l  | <2   | UKTAG      | 1.5    | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| 1,2-Dichloroethane #           | TM15/PM10 | ug/l  | <2   | WFD        | 3      | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           |              |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Benzene #                      | TM15/PM10 | ug/l  | <0.5 | UKTAG      | 0.5    | 2                   |                      | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | 1            | <0.5         |              | 0.8          |              | <0.5         | <0.5         |              |              | <0.5         | <0.5         |              |               |               |
| Trichloroethene (TCE) #        | TM15/PM10 | ug/l  | <3   | UKTAG      | 5      | 0                   |                      | <3           |              |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              | <3           | <3           |              |               |               |
| 1,2-Dichloropropane #          | TM15/PM10 | ug/l  | <2   | RPV        | 5      | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Dibromomethane #               | TM15/PM10 | ug/l  | <3   | RPV        | 400    | 0                   |                      | <3           |              |              | <3           |              | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              |              | <3           | <3           |              |               |               |
| Bromodichloromethane #         | TM15/PM10 | ug/l  | <2   | WFD        | 60     | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| cis-1-3-Dichloropropene        | TM15/PM10 | ug/l  | <2   | WFD        | 20     | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Toluene #                      | TM15/PM10 | ug/l  | <5   | UKTAG      | 350    | 0                   |                      | <5           |              |              | <5           |              | <5           | <5           |              | <5           | <5           |              | <5           |              | <5           | <5           |              |              | <5           | <5           |              |               |               |
| trans-1-3-Dichloropropene      | TM15/PM10 | ug/l  | <2   |            |        | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| 1,1,2-Trichloroethane #        | TM15/PM10 | ug/l  | <2   | DWS        | 5      | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Tetrachloroethene (PCE) #      | TM15/PM10 | ug/l  | <3   |            |        | 0                   |                      | <3           |              |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              |              | <3           | <3           |              |               |               |
| 1,3-Dichloropropane #          | TM15/PM10 | ug/l  | <2   | DWS        | 20     | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Dibromochloromethane #         | TM15/PM10 | ug/l  | <2   | DWS        | 100    | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| 1,2-Dibromoethane #            | TM15/PM10 | ug/l  | <2   | DWS        | 0.4    | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Chlorobenzene #                | TM15/PM10 | ug/l  | <2   | RPV        | 100    | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | 8            | <2           |              | <2           |              | <2           | <2           |              |              | <2           | <2           |              |               |               |
| 1,1,1,2-Tetrachloroethane #    | TM15/PM10 | ug/l  | <2   |            |        | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Ethylbenzene #                 | TM15/PM10 | ug/l  | <1   | RPV        | 300    | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |               |               |
| m/p-Xylene #                   | TM15/PM10 | ug/l  | <2   | DWS        | 500    | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| o-Xylene #                     | TM15/PM10 | ug/l  | <1   | DWS        | 500    | 0                   |                      | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              |              | <1           | <1           |              |               |               |
| Styrene                        | TM15/PM10 | ug/l  | <2   | DWS        | 20     | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              | <2           | <2           |              |               |               |
| Bromoform #                    | TM15/PM10 | ug/l  | <2   |            |        | 0                   |                      | <2           |              |              | <2           |              | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              |              |              |              |              |              |               |               |

|                      |           |       |      |            |        |                     |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
|----------------------|-----------|-------|------|------------|--------|---------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Risks to Groundwater |           |       |      |            |        |                     | Sample ID            | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         | SW01         | SW02         |              |              |               |               |
|                      |           |       |      |            |        |                     | Depth                | 2.00         | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         | SURFACE      | SURFACE      |              |              |               |               |
|                      |           |       |      |            |        |                     | Sample Type          | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water |
|                      |           |       |      |            |        |                     | Sampled Date         | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 29/09/2023    | 29/09/2023    |
|                      |           |       |      |            |        |                     | Sample Received Date | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023    | 29/09/2023    |
| Test                 | Method    | Units | LOD  | GAC Source | GAC GW | No. GAC Exceedances |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Metals               |           |       |      |            |        |                     |                      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| PCB 180 #            | TM17/PM30 | ug/l  | <0.1 |            |        |                     | -                    | <0.1         | -            | <0.1         | -            | -            | <0.1         | -            | <0.1         | <0.1         | -            | -            | -            | <0.1         | -            | -            | -            | -            | -            | <0.1         | <0.1         |              |              |              |               |               |
| Total 7 PCBs         | TM17/PM30 | ug/l  | <0.7 |            |        |                     | -                    | <0.7         | -            | <0.7         | -            | -            | <0.7         | -            | <0.7         | <0.7         | -            | -            | -            | <0.7         | -            | -            | -            | -            | -            | <0.7         | <0.7         |              |              |              |               |               |

| Risks to Groundwater                    |                         |       |        |            | Sample ID            | BH2513              | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01         | SW02          | SW03          |               |
|-----------------------------------------|-------------------------|-------|--------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |                         |       |        |            | Depth                | 4.64                | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |              |               |               |               |
|                                         |                         |       |        |            | Sample Type          | Ground Water        | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |                         |       |        |            | Sampled Date         | 28/02/2024          | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 26/02/2024    | 26/02/2024    |               |
|                                         |                         |       |        |            | Sample Received Date | 29/02/2024          | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024    | 27/02/2024    |               |
| Test                                    | Method                  | Units | LOD    | C Source   | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Metals                                  |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   | UKTAG      | 5                    | 3                   | 3.7          | 4.2          | 2.9          | 3.8          | <2.5         | <2.5         | 8.4          | 12.7         | 5.3          | <2.5         | <2.5         | <2.5         | 4.5          | <2.5         | <2.5          | <2.5          |               |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   | RPV        | 4                    | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          |               |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    | WFD        | 750                  | 2                   | 200          | 468          | 624          | 1590         | 57           | 126          | 879          | 100          | 208          | 191          | 392          | 454          | 126          | 362          | 56            | 48            | 41            |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   | WFD Min TV | 3.75                 | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | 0.6          | <0.5          | <0.5          | <0.5          |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   | WFD        | 37.5                 | 0                   | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5          | <1.5          | <1.5          |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     | WFD        | 1500                 | 0                   | 9            | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | 58           | <7            | <7            | <7            |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    | DWD        | 200                  | 7                   | <20          | 2221         | 39           | 246          | <20          | 66           | 40           | 5125         | 4246         | 21731        | 9599         | 672          | 38           | <20          | 34            | 30            | 28            |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | UKTAG      | 5                    | 1                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | 15           | <5            | <5            | <5            |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     | UKTAG      | 0.5                  | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1            | <1            | <1            |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     | WFD        | 15                   | 1                   | 2            | 3            | <2           | <2           | <2           | 6            | <2           | 4            | 5            | <2           | <2           | <2           | 10           | 31           | <2            | <2            | <2            |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     | WFD        | 7.5                  | 0                   | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3            | <3            | <3            |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   |            |                      |                     | 2            | 3            | 4.6          | 3.5          | 7.2          | 4.5          | 4.5          | 1.9          | <1.5         | 2.6          | 2.1          | 2            | 6.3          | 1.5          | <1.5          | <1.5          |               |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     | WFD        | 5000                 | 0                   | 7            | 4            | 4            | <3           | <3           | 18           | <3           | 5            | <3           | 8            | 8            | <3           | 7            | 1111         | 8             | 8             | 7             |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |            |                      |                     | 570          | 1268         | 525          | 632          | 199          | 292          | 1128         | 410          | 735          | 831          | 850          | 795          | 467          | 1102         | 278           | 281           | 284           |
| PAH MS                                  |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Naphthalene #                           | TM4/PM30                | ug/l  | <0.1   | WFD        | 0.075                | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <3.0         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <2.0         | <0.1         | <0.1         | <0.1          | <0.1          | <0.1          |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.053        | 0.008        | 0.204        | 0.027        | <0.005       | 0.666        | 0.039        | <0.005       | <0.005       | 0.013        | <0.005       | 0.253        | 0.009        | <0.005       | <0.005        | <0.005        | <0.005        |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.12         | 0.17         | 8.668        | 2.561        | <0.005       | <0.150       | 2.042        | <0.005       | <0.005       | 0.706        | 0.888        | 3.677        | <0.005       | <0.005       | <0.005        | <0.005        | <0.005        |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.025        | 0.022        | 1.958        | 0.529        | <0.005       | <0.150       | 0.269        | <0.005       | <0.005       | 0.68         | 0.528        | 0.738        | <0.005       | <0.005       | <0.005        | <0.005        | <0.005        |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.214        | <0.005       | <0.005       | 0.07         | <0.005       | 0.821        | <0.005       | 0.007        | <0.005       | 0.529        | 0.044        | 1.024        | 0.009        | <0.005       | <0.005        | <0.005        | <0.005        |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 7                   | 0.094        | <0.005       | 0.137        | 0.105        | 0.01         | 0.978        | <0.005       | 0.01         | 0.007        | 0.167        | 0.06         | 1.602        | 0.023        | 0.009        | <0.005        | <0.005        | <0.005        |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | WFD        | 0.075                | 7                   | 1.114        | 0.03         | 1.116        | 0.295        | 0.012        | 4.429        | 0.7          | 0.018        | 0.005        | 0.428        | 0.05         | 28.734       | 0.047        | 0.015        | 0.014         | 0.018         | 0.023         |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 1.021        | 0.029        | 0.739        | 0.192        | 0.013        | 4.773        | 0.582        | 0.02         | 0.006        | 0.297        | 0.038        | 23.981       | 0.05         | 0.015        | 0.016         | 0.018         | 0.022         |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.531        | 0.013        | 0.077        | 0.017        | 0.008        | 2.728        | 0.287        | 0.013        | <0.005       | 0.061        | <0.005       | 8.882        | 0.041        | 0.016        | 0.008         | 0.011         | 0.014         |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.522        | 0.009        | 0.074        | 0.015        | 0.008        | 3.38         | 0.265        | 0.01         | <0.005       | 0.058        | <0.005       | 10.284       | 0.036        | 0.012        | 0.006         | 0.01          | 0.011         |
| Benzo(bk)fluoranthene #                 | TM4/PM30                | ug/l  | <0.008 |            |                      |                     | 1.134        | 0.018        | 0.144        | 0.017        | 0.019        | 9.852        | 0.528        | 0.02         | <0.008       | 0.055        | <0.008       | 11.307       | 0.094        | 0.029        | 0.015         | 0.019         | 0.023         |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.005                | 15                  | 0.606        | 0.008        | 0.08         | 0.007        | 0.01         | 4.888        | 0.293        | 0.009        | <0.005       | 0.03         | <0.005       | 6.851        | 0.051        | 0.015        | 0.007         | 0.009         | 0.011         |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 5                   | 0.45         | 0.008        | 0.068        | 0.007        | 0.009        | 4.657        | 0.21         | 0.008        | <0.005       | 0.019        | <0.005       | 4.537        | 0.05         | 0.016        | 0.007         | 0.008         | 0.009         |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.099        | <0.005       | 0.014        | <0.005       | <0.005       | 1.065        | 0.044        | <0.005       | <0.005       | 0.007        | <0.005       | 0.887        | 0.011        | 0.005        | <0.005        | <0.005        | <0.005        |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 5                   | 0.399        | 0.007        | 0.064        | 0.006        | 0.01         | 4.301        | 0.201        | 0.007        | <0.005       | 0.017        | <0.005       | 3.882        | 0.044        | 0.012        | 0.007         | 0.008         | 0.009         |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 | RPV        | 0.1                  | 10                  | 6.382        | 0.322        | 13.343       | 3.848        | <0.173       | 42.538       | 5.46         | <0.173       | <0.173       | 3.067        | 1.608        | 106.639      | 0.465        | <0.173       | <0.173        | <0.173        | <0.173        |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | UKTAG      | 0.05                 | 6                   | 0.816        | 0.013        | 0.104        | 0.012        | 0.014        | 7.093        | 0.38         | 0.014        | <0.008       | 0.04         | <0.008       | 8.141        | 0.068        | 0.021        | 0.011         | 0.014         | 0.017         |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | UKTAG      | 0.05                 | 4                   | 0.318        | <0.008       | 0.04         | <0.008       | <0.008       | 2.759        | 0.148        | <0.008       | <0.008       | 0.015        | <0.008       | 3.166        | 0.026        | 0.008        | <0.008        | <0.008        | <0.008        |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |            |                      |                     | 83           | 89           | 85           | 86           | 91           | 101          | 74           | 78           | 86           | 78           | 92           | 98           | 85           | 85           | 89            | 91            | 85            |
| VOC TICs                                | TM15/PM10               | None  |        |            |                      |                     | ND           | NA           | ND           | NA           | ND           | ND           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | ND            | ND            | ND            |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   | WFD        | 15                   | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | NA            |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | UKTAG      | 0.5                  | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | UKTAG      | 350                  | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <5            | <5            | NA            |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     | WHO        | 300                  | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | WHO        | 500                  | 0                   | <2           | <2           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | WHO        | 500                  | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |            |                      | 0                   | 100          | 92           | 96           | 98           | 102          | 97           | 98           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 103           | 104           | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |            |                      |                     | 101          | 95           | 102          | 95           | 103          | 99           | 98           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 101           | 102           | NA            |
| TPH CWG                                 |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Aliphatics                              |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    | WHO        | 15000                | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    | WHO        | 15000                | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    | WHO        | 300                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     | WHO        | 300                  | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    | WHO        | 300                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |            |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | 450          | <10          | <10          | <10           | <10           | <10           |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |            |                      |                     | 2490         | <10          | <10          | <10          | <10          | 270          | <10          | 610          | <10          | <10          | <10          | 660          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics C5-35 #                | TM5/PM36/PM12/PM16/PM30 | ug/l  | <10    |            |                      |                     | 2490         | <10          | <10          | <10          | <10          | 270          | <10          | 610          | <10          | <10          | <10          | 1110         | <10          | <10          | <10           | <10           | <10           |
| Aromatics                               |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | DWS        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC7-EC8 #                              | TM36/PM12               | ug/l  | <10    | DWS        | 700                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC8-EC10 #                             | TM36/PM12               | ug/l  | <10    | DWS        | 500                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <1           |              |              |              |              |              |               |               |               |



[illegible]

| Risks to Groundwater                      |           |       |      |          | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01         | SW02          | SW03          |               |
|-------------------------------------------|-----------|-------|------|----------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                           |           |       |      |          | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |              |               |               |               |
|                                           |           |       |      |          | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                           |           |       |      |          | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 26/02/2024    | 26/02/2024    |               |
|                                           |           |       |      |          | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024    | 27/02/2024    |               |
| Test                                      | Method    | Units | LOD  | C Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Bis(2-chloroethoxy)methane <sup>#</sup>   | TM16/PM30 | ug/l  | <1   |          |                      |                     | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5          | <0.5          |               |
| Bis(2-chloroethyl)ether <sup>#</sup>      | TM16/PM30 | ug/l  | <0.5 |          |                      |                     | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Carbazole <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 |          |                      |                     | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5          | <0.5          |               |
| Dibenzofuran <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |          |                      |                     | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5          | <0.5          |               |
| Hexachlorobenzene <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | UKTAG    | 0.05                 | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Hexachlorobutadiene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | UKTAG    | 0.05                 | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Hexachlorocyclopentadiene                 | TM16/PM30 | ug/l  | <1   |          |                      |                     | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Hexachloroethane <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |          |                      |                     | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Isophorone <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |          |                      |                     | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5          | <0.5          |               |
| N-nitrosodi-n-propylamine <sup>#</sup>    | TM16/PM30 | ug/l  | <1   |          |                      |                     | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5          | <0.5          |               |
| Nitrobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <0   |          |                      |                     | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Surrogate Recovery 2-Fluorobiphenyl       | TM16/PM30 | %     | <0   |          |                      |                     | 93           | NA           | 85           | NA           | 112          | 72           | 96           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 126          | 118           | 120           |               |
| Surrogate Recovery p-Terphenyl-d14        | TM16/PM30 | %     |      |          |                      |                     | 100          | NA           | 109          | NA           | 138          | 96           | 110          | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 145          | 145           | 129           |               |
| VOC MS                                    |           |       |      |          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dichlorodifluoromethane                   | TM15/PM10 | ug/l  | <2   |          |                      |                     | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Methyl Tertiary Butyl Ether <sup>#</sup>  | TM15/PM10 | ug/l  | <0.1 |          |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1         | <0.1          | <0.1          |               |
| Chloromethane <sup>#</sup>                | TM15/PM10 | ug/l  | <3   |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Vinyl Chloride <sup>#</sup>               | TM15/PM10 | ug/l  | <0.1 | UKTAG    | 0.25                 | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1         | <0.1          | <0.1          |               |
| Bromomethane                              | TM15/PM10 | ug/l  | <1   |          |                      |                     | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Chloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Trichlorofluoromethane <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup> | TM15/PM10 | ug/l  | <3   | RPV      | 7                    | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Dichloromethane (DCM) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | RPV      | 5                    | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| trans-1-2-Dichloroethene <sup>#</sup>     | TM15/PM10 | ug/l  | <3   | WFD      | 50                   | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,1-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <3   | WFD      | 7                    | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| cis-1-2-Dichloroethene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   | WFD      | 50                   | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 2,2-Dichloropropane                       | TM15/PM10 | ug/l  | <1   |          |                      |                     | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Bromochloromethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   |          |                      |                     | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Chloroform <sup>#</sup>                   | TM15/PM10 | ug/l  | <2   | WFD      | 1.29                 | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,1,1-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   | WFD      | 200                  | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,1-Dichloropropene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Carbon tetrachloride <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | UKTAG    | 1.5                  | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,2-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   | WFD      | 3                    | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Benzene <sup>#</sup>                      | TM15/PM10 | ug/l  | <0.5 | UKTAG    | 0.5                  | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5          | <0.5          |               |
| Trichloroethene (TCE) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | UKTAG    | 5                    | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,2-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | RPV      | 5                    | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Dibromomethane <sup>#</sup>               | TM15/PM10 | ug/l  | <3   | RPV      | 400                  | 0                   | <3           | NA           | <            |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |

| Risks to Groundwater                    |            |       |       |          | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01         | SW02          | SW03          |               |
|-----------------------------------------|------------|-------|-------|----------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |            |       |       |          | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |              |               |               |               |
|                                         |            |       |       |          | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |            |       |       |          | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 26/02/2024    | 26/02/2024    |               |
|                                         |            |       |       |          | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |
| Test                                    | Method     | Units | LOD   | C Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 1,2,4-Trimethylbenzene <sup>#</sup>     | TM15/PM10  | ug/l  | <3    |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| sec-Butylbenzene <sup>#</sup>           | TM15/PM10  | ug/l  | <3    |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 4-Isopropyltoluene <sup>#</sup>         | TM15/PM10  | ug/l  | <3    |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,3-Dichlorobenzene <sup>#</sup>        | TM15/PM10  | ug/l  | <3    |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,4-Dichlorobenzene <sup>#</sup>        | TM15/PM10  | ug/l  | <3    | DWS      | 80                   | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| n-Butylbenzene <sup>#</sup>             | TM15/PM10  | ug/l  | <3    |          |                      |                     | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,2-Dichlorobenzene <sup>#</sup>        | TM15/PM10  | ug/l  | <3    | DWS      | 600                  | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,2-Dibromo-3-chloropropane             | TM15/PM10  | ug/l  | <2    | DWS      | 0.2                  | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,2,4-Trichlorobenzene                  | TM15/PM10  | ug/l  | <3    | DWS      | 35                   | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Hexachlorobutadiene                     | TM15/PM10  | ug/l  | <3    | UKTAG    | 0.05                 | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Naphthalene                             | TM15/PM10  | ug/l  | <2    | DWS      | 0.075                | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,2,3-Trichlorobenzene                  | TM15/PM10  | ug/l  | <3    | WFD      | 0.01                 | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Surrogate Recovery Toluene D8           | TM15/PM10  | %     | <0    |          |                      |                     | 100          | NA           | 96           | NA           | 102          | 97           | 98           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 103          | 104           | 101           |               |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10  | %     | <0    |          |                      |                     | 101          | NA           | 102          | NA           | 103          | 99           | 98           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 101          | 102           | 99            |               |
|                                         |            |       |       |          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| SVOC TICs                               | TM16/PM30  | None  |       |          |                      |                     | ND           | NA           | ND           | NA           | ND           | ND           | See Attached | NA           | NA           | NA           | NA           | NA           | NA           | NA           | ND           | ND            | ND            |               |
| Cyclic octaatomic sulfur                | TM16/PM30  | ug/l  | <100  |          |                      |                     | NA           | NA           | NA           | NA           |              |              | 263          |              |              |              |              |              |              |              |              |               |               |               |
| Pesticides                              |            |       |       |          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Organochlorine Pesticides               |            |       |       |          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Aldrin                                  | TM149/PM30 | ug/l  | <0.01 | UKTAG    | 0.015                | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Alpha-HCH (BHC)                         | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.30        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Beta-HCH (BHC)                          | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Delta-HCH (BHC)                         | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Dieldrin                                | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Endosulphan I                           | TM149/PM30 | ug/l  | <0.01 | UKTAG    | 10                   | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Endosulphan II                          | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Endosulphan sulphate                    | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Endrin                                  | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Gamma-HCH (BHC)                         | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Heptachlor                              | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Heptachlor Epoxide                      | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| o,p'-Methoxychlor                       | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.30        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| p,p'-DDE                                | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.30        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| p,p'-DDT                                | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.30        | NA           | <0.30        | NA           | <0.01        | <0.30        | <0.30        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.10         |               |
| p,p'-Methoxychlor                       | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.30        | NA           | <0.30        | NA           | <0.01        | <0.30        | <0.30        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.10         |               |
| p,p'-TDE                                | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Organophosphorus Pesticides             |            |       |       |          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Azinphos methyl                         | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Diazinon                                | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Dichlorvos                              | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.30        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Disulfoton                              | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Ethion                                  | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Ethyl Parathion (Parathion)             | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Fenitrothion                            | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01        | <0.01         | <0.01         |               |
| Malathion                               | TM149/PM30 | ug/l  | <0.01 |          |                      |                     | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | &lt          |              |              |              |              |              |              |              |              |               |               |               |



| Risks to Groundwater |             |       |       |       | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01          | SW02          | SW03          |
|----------------------|-------------|-------|-------|-------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                      |             |       |       |       | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |               |               |               |
|                      |             |       |       |       | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                      |             |       |       |       | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024    | 26/02/2024    | 26/02/2024    |
|                      |             |       |       |       | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |
| Test                 | Method      | Units | LOD   | C Sou | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 2,4-DB               | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Dicamba              | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Dichloroprop         | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Diclofop             | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Fenoprop             | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Flamprop             | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Flamprop-isopropyl   | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Ioxynil              | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| MCPA                 | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| MCPB                 | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Mecoprop             | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Picloram             | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Pentachlorophenol    | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| 2,4,5-T              | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| 2,3,6-TBA            | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Triclopyr            | TM42/PM30   | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFAAS                |             |       |       |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFBA                 | TM135/PM121 | ug/l  | <0.05 |       | 10                   | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFPeA                | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFHxA                | TM135/PM121 | ug/l  | <0.05 |       | 6                    | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFHpA                | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFOA                 | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | 0.06         | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFNA                 | TM135/PM121 | ug/l  | <0.05 |       | 0.06                 | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFDA                 | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFUnA                | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFDoA                | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFTTrDA              | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFTeDA               | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFHxDA               | TM135/PM121 | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFODA                | TM135/PM121 | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFBS                 | TM135/PM121 | ug/l  | <0.05 |       | 6                    | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | 0.08         | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFPeS                | TM135/PM121 | ug/l  | <0.05 |       |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFHxS                | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFHpS                | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFOS                 | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 1                   | 0.14         | NA           | <0.05        | NA           | <0.05        | 0.05         | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFNS                 | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFDS                 | TM135/PM121 | ug/l  | <0.05 |       | 0.1                  | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFUnDS               | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFDoDS               | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFTTrDS              | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| HFPO-DA (Gen X)      | TM135/PM121 | ug/l  | <0.05 |       | 0.06                 | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| HFPO-TA              | TM135/PM121 | ug/l  | <1    |       |                      |                     | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| DONA                 | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFMOPrA              | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| NFDHA                | TM135/PM121 | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFMObA               | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFECHS               | TM135/PM121 | ug/l  | <0.05 |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| 3:3 FTCA             | TM135/PM121 | ug/l  | <0.1  |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |

| Risks to Groundwater |             |       |         |       | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01          | SW02          | SW03          |
|----------------------|-------------|-------|---------|-------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                      |             |       |         |       | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |               |               |               |
|                      |             |       |         |       | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                      |             |       |         |       | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024    | 26/02/2024    | 26/02/2024    |
|                      |             |       |         |       | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |
| Test                 | Method      | Units | LOD     | C Sou | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 5:3 FTCA             | TM135/PM121 | ug/l  | <0.5    |       |                      |                     | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | <0.5          |
| 7:3 FTCA             | TM135/PM121 | ug/l  | <0.1    |       |                      |                     | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFEESA               | TM135/PM121 | ug/l  | <0.05   |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| 9Cl-PF3ONS           | TM135/PM121 | ug/l  | <0.05   |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| 11Cl-PF3OUdS         | TM135/PM121 | ug/l  | <0.05   |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| 4:2 FTS              | TM135/PM121 | ug/l  | <0.2    |       |                      |                     | <0.2         | NA           | <0.2         | NA           | <0.2         | <0.2         | <0.2         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.2          | <0.2          | <0.2          |
| 6:2 FTS              | TM135/PM121 | ug/l  | <0.2    |       | 0.1                  | 0                   | <0.2         | NA           | <0.2         | NA           | <0.2         | <0.2         | <0.2         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.2          | <0.2          | <0.2          |
| 8:2 FTS              | TM135/PM121 | ug/l  | <0.2    |       | 0.2                  | 0                   | <0.2         | NA           | <0.2         | NA           | <0.2         | <0.2         | <0.2         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.2          | <0.2          | <0.2          |
| FBSA                 | TM135/PM121 | ug/l  | <0.05   |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| FHxSA                | TM135/PM121 | ug/l  | <0.05   |       |                      |                     | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| FOSA                 | TM135/PM121 | ug/l  | <1      |       | 0.1                  | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| N-MeFOSA             | TM135/PM121 | ug/l  | <1      |       |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| N-EtFOSA             | TM135/PM121 | ug/l  | <1      |       |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| Me-FOSE              | TM135/PM121 | ug/l  | <0.1    |       |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Et-FOSE              | TM135/PM121 | ug/l  | <0.1    |       |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| N-MeFOSAA            | TM135/PM121 | ug/l  | <1      |       | 0.07                 | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| N-EtFOSAA            | TM135/PM121 | ug/l  | <1      |       | 0.07                 | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| 8:2diPAP             | TM135/PM121 | ug/l  | <0.2    |       |                      |                     | <0.2         | NA           | <0.2         | NA           | <0.2         | <0.2         | <0.2         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.2          | <0.2          | <0.2          |
| FOUEA                | TM135/PM121 | ug/l  | <1      |       |                      |                     | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| PFBA <sup>#</sup>    | TM135/PM122 | ug/l  | <0.001  |       | 10                   | 0                   | 0.005        | NA           | 0.007        | NA           | 0.002        | 0.006        | 0.078        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.005         | 0.006         | 0.003         |
| PFPeA <sup>#</sup>   | TM135/PM122 | ug/l  | <0.001  |       | 0.1                  | 0                   | 0.022        | NA           | 0.028        | NA           | <0.005       | 0.027        | 0.025        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.007         | 0.006         | 0.004         |
| PFHxA <sup>#</sup>   | TM135/PM122 | ug/l  | <0.001  |       | 6                    | 0                   | 0.018        | NA           | 0.022        | NA           | 0.005        | 0.022        | 0.027        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.007         | 0.006         | 0.004         |
| PFHpA <sup>#</sup>   | TM135/PM122 | ug/l  | <0.001  |       | 0.1                  | 0                   | 0.013        | NA           | 0.013        | NA           | 0.003        | 0.007        | 0.011        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.004         | 0.003         | 0.002         |
| PFOA <sup>#</sup>    | TM135/PM122 | ug/l  | <0.0005 |       | 0.1                  | 0                   | 0.0393       | NA           | 0.0286       | NA           | 0.0071       | 0.0069       | 0.0338       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.0106        | 0.0089        | 0.0068        |
| PFNA <sup>#</sup>    | TM135/PM122 | ug/l  | <0.001  |       | 0.06                 | 0                   | 0.003        | NA           | <0.001       | NA           | 0.001        | 0.001        | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFDA <sup>#</sup>    | TM135/PM122 | ug/l  | <0.001  |       | 0.1                  | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFUnA <sup>#</sup>   | TM135/PM122 | ug/l  | <0.001  |       | 0.1                  | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFDoA                | TM135/PM122 | ug/l  | <0.001  |       | 0.1                  | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFTrDA               | TM135/PM122 | ug/l  | <0.006  |       | 0.1                  | 0                   | <0.006       | NA           | <0.006       | NA           | <0.006       | <0.006       | <0.006       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.006        | <0.006        | <0.006        |
| PFTeDA               | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFHxDA               | TM135/PM122 | ug/l  | <0.01   |       |                      |                     | <0.01        | NA           | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |
| PFODA                | TM135/PM122 | ug/l  | <0.025  |       |                      |                     | <0.025       | NA           | <0.025       | NA           | <0.025       | <0.025       | <0.025       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.025        | <0.025        | <0.025        |
| PFBS <sup>#</sup>    | TM135/PM122 | ug/l  | <0.001  |       | 6                    | 0                   | 0.007        | NA           | 0.01         | NA           | 0.007        | 0.069        | 0.026        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.006         | 0.005         |
| PFPeS <sup>#</sup>   | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | 0.002        | NA           | 0.005        | NA           | <0.001       | <0.001       | 0.008        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFHxS <sup>#</sup>   | TM135/PM122 | ug/l  | <0.001  |       | 0.1                  | 0                   | 0.021        | NA           | 0.029        | NA           | 0.004        | 0.005        | 0.042        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.005         | 0.004         |
| PFHpS <sup>#</sup>   | TM135/PM122 | ug/l  | <0.001  |       | 0.1                  | 0                   | 0.001        | NA           | 0.001        | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFOS <sup>#</sup>    | TM135/PM122 | ug/l  | <0.0005 |       | 0.1                  | 0                   | 0.0783       | NA           | 0.0186       | NA           | 0.0208       | 0.023        | 0.0296       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.0112        | 0.0134        | 0.0093        |
| PFNS                 | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFDS                 | TM135/PM122 | ug/l  | <0.001  |       | 0.1                  | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFUnDS               | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFDoDS               | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFTrDS               | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| HFPO-DA (Gen X)      | TM135/PM122 | ug/l  | <0.001  |       | 0.06                 | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| HFPO-TA              | TM135/PM122 | ug/l  | <0.02   |       |                      |                     | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| DONA <sup>#</sup>    | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFMOPrA              | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.001         | <0.001        | <0.001        |
| NFDHA                | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFMOBA               | TM135/PM122 | ug/l  | <0.001  |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |

| Risks to Groundwater                      |                |          |        |       | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01          | SW02          | SW03          |
|-------------------------------------------|----------------|----------|--------|-------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                           |                |          |        |       | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |               |               |               |
|                                           |                |          |        |       | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                           |                |          |        |       | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024    | 26/02/2024    | 26/02/2024    |
|                                           |                |          |        |       | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |
| Test                                      | Method         | Units    | LOD    | C Sou | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFECHS                                    | TM135/PM122    | ug/l     | <0.001 |       |                      |                     | 0.003        | NA           | 0.002        | NA           | 0.001        | 0.001        | 0.023        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| 3:3 FTCA                                  | TM135/PM122    | ug/l     | <0.02  |       |                      |                     | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| 5:3 FTCA                                  | TM135/PM122    | ug/l     | <0.01  |       |                      |                     | <0.01        | NA           | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |
| 7:3 FTCA                                  | TM135/PM122    | ug/l     | <0.02  |       |                      |                     | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| PFEESA                                    | TM135/PM122    | ug/l     | <0.001 |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| 9Cl-PF3ONS <sup>#</sup>                   | TM135/PM122    | ug/l     | <0.001 |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| 11Cl-PF3OUdS                              | TM135/PM122    | ug/l     | <0.001 |       |                      |                     | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| 4:2 FTS                                   | TM135/PM122    | ug/l     | <0.005 |       |                      |                     | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| 6:2 FTS                                   | TM135/PM122    | ug/l     | <0.005 |       | 0.1                  | 0                   | 0.012        | NA           | 0.018        | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| 8:2 FTS                                   | TM135/PM122    | ug/l     | <0.005 |       | 0.2                  | 0                   | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| FBSA                                      | TM135/PM122    | ug/l     | <0.02  |       |                      |                     | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| FHxSA                                     | TM135/PM122    | ug/l     | <0.02  |       |                      |                     | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| FOSA                                      | TM135/PM122    | ug/l     | <0.005 |       | 0.1                  | 0                   | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| N-MeFOSA                                  | TM135/PM122    | ug/l     | <0.005 |       |                      |                     | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| N-EtFOSA                                  | TM135/PM122    | ug/l     | <0.005 |       |                      |                     | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| Me-FOSE                                   | TM135/PM122    | ug/l     | <0.02  |       |                      |                     | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| Et-FOSE                                   | TM135/PM122    | ug/l     | <0.02  |       |                      |                     | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| N-MeFOSAA                                 | TM135/PM122    | ug/l     | <0.005 |       | 0.07                 | 0                   | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| N-EtFOSAA                                 | TM135/PM122    | ug/l     | <0.005 |       | 0.07                 | 0                   | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | 0.031        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| 8:2diPAP                                  | TM135/PM122    | ug/l     | <0.005 |       |                      |                     | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| FOUEA                                     | TM135/PM122    | ug/l     | <0.005 |       |                      |                     | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| Sum of PFOS and PFOA                      |                | ug/l     |        |       | 0.5                  | 0                   | 0.2246       | 0            | 0.1822       | 0            | 0.0509       | 0.1679       | 0.3344       | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0.0578        | 0.0543        | 0.0381        |
|                                           |                |          |        |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dioxane*                              | Subcontracted/ | ug/l     | <0.07  |       | 50                   | 0                   | <0.07        | NA           | <0.14        | NA           | <0.14        | <0.49        | 33.6         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.21         | <0.21         | <0.07         |
| BOD (Settled) <sup>#</sup>                | TM58/PM0       | mg/l     | <1     |       |                      | 0                   | <1           | 10           | 4            | 17           | <1           | 2            | 19           | 9            | 1            | 24           | 23           | 13           | 1            | 2            | <1            | 1             | 1             |
| COD (Settled) <sup>#</sup>                | TM57/PM0       | mg/l     | <7     |       |                      | 0                   | 45           | 67           | 124          | 90           | 18           | 43           | 75           | 62           | 57           | 58           | 46           | 55           | 43           | 26           | 22            | 18            | 14            |
| Dissolved Oxygen                          | TM58/PM0       | mg/l     | <1     |       |                      | 0                   | 6            | NA           | 6            | NA           | 9            | 5            | 3            | NA           | NA           | NA           | NA           | NA           | NA           | NA           | NA            | NA            | NA            |
| Dissolved Organic Carbon <sup>#</sup>     | TM60/PM0       | mg/l     | <2     |       |                      | 0                   | 23           | 13           | 18           | 48           | 4            | 6            | 45           | 11           | 11           | 19           | 13           | 15           | 2            | 6            | 4             | 3             | 3             |
| Electrical Conductivity @25C <sup>#</sup> | TM76/PM0       | uS/cm    | <2     |       |                      | 0                   | 1206         | NA           | 984          | NA           | 453          | 705          | 1976         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | NA            | NA            | NA            |
| Free Ammonia as NH3                       | TM176/PM0      | mg/l     | <0.007 |       |                      | 0                   | <0.007       | 0.061        | <0.007       | 0.278        | <0.007       | <0.007       | 0.084        | <0.007       | <0.007       | 0.011        | 0.024        | 0.024        | <0.007       | <0.007       | <0.007        | <0.007        | <0.007        |
| pH <sup>#</sup>                           | TM73/PM0       | pH units | <0.01  |       |                      | 0                   | 7.49         | 7.65         | 7.72         | 7.96         | 7.95         | 7.21         | 7.54         | 7.31         | 7.45         | 7.26         | 7.77         | 7.25         | 7.99         | 7.31         | 7.91          | 7.73          | 7.69          |
| Total Dissolved Solids <sup>#</sup>       | TM20/PM0       | mg/l     | <35    |       |                      | 0                   | 811          | NA           | 618          | NA           | 268          | 482          | 1413         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | NA            | NA            | NA            |

| Risks to Groundwater                    |                         |       |        |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|-----------------------------------------|-------------------------|-------|--------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |                         |       |        |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                         |                         |       |        |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |                         |       |        |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                         |                         |       |        |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                    | Method                  | Units | LOD    | GAC Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| Metals                                  |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   | UKTAG      | 5                    | 1                   | 3.3          | 1.3          | 1.4          | 3.9          | 3.3          | 3            | 7.6          | 0.9           | 0.9           | <0.9          |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   | RPV        | 4                    | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    | WFD        | 750                  | 2                   | 296          | 556          | 128          | 1873         | 107          | 122          | 1111         | 60            | 53            | 44            |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   | WFD Min TV | 3.75                 | 0                   | 0.04         | <0.03        | 0.03         | <0.03        | <0.03        | 0.04         | <0.03        | <0.03         | <0.03         | <0.03         |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   | WFD        | 37.5                 | 0                   | 0.4          | 1            | 0.2          | 0.8          | 0.6          | 0.3          | 1.4          | 0.3           | 0.3           | 0.3           |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     | WFD        | 1500                 | 0                   | 9            | <1           | 2            | <1           | <1           | 4            | <1           | 2             | 2             | 2             |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    | DWD        | 200                  | 3                   | 920.8        | 2355.5       | 12.7         | 1619.6       | 177          | 48.7         | 30           | 32.6          | 28            | 26.4          |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | UKTAG      | 5                    | 0                   | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | 0.8          | <0.4         | <0.4          | <0.4          | <0.4          |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     | UKTAG      | 0.5                  | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     | WFD        | 15                   | 0                   | 4.4          | 1.8          | 3.1          | 2.6          | 2.2          | 6.1          | 1.7          | 2             | 1.7           | 1.5           |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     | WFD        | 7.5                  | 0                   | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2          | <1.2          | <1.2          |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   |            |                      |                     | 3.3          | 2.4          | 3.3          | 3.6          | 5.5          | 4.6          | 6.1          | 1.7           | 1.6           | 1.7           |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     | WFD        | 5000                 | 0                   | 8            | 2.2          | 4.5          | 2.3          | 3.8          | 19.5         | 2.5          | 6.3           | 6.4           | 5.8           |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |            |                      |                     | 799          | 1219         | 352          | 646          | 214          | 289          | 918          | 277           | 286           | 287           |
| PAH MS                                  |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Naphthalene #                           | TM4/PM30                | ug/l  | <0.1   | WFD        | 0.075                | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1          | <0.1          | <0.1          |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | <0.005       | 0.007        | 0.01         | 0.031        | 0.007        | 0.044        | 0.022        | <0.005        | <0.005        | <0.005        |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.011        | 0.162        | 0.258        | 2.432        | 0.007        | 0.022        | 1.578        | <0.005        | <0.005        | <0.005        |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | <0.005       | 0.021        | 0.048        | 0.422        | <0.005       | 0.006        | 0.212        | <0.005        | <0.005        | <0.005        |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | <0.005       | 0.012        | <0.005       | 0.03         | <0.005       | 0.054        | 0.012        | <0.005        | <0.005        | <0.005        |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 2                   | 0.011        | 0.011        | 0.006        | 0.079        | 0.031        | 0.078        | 0.027        | <0.005        | <0.005        | <0.005        |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | WFD        | 0.075                | 2                   | 0.011        | 0.019        | 0.017        | 0.186        | <0.005       | 0.267        | 0.019        | 0.012         | 0.007         | 0.008         |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | 0.011        | 0.015        | 0.01         | 0.119        | <0.005       | 0.292        | 0.012        | 0.012         | 0.007         | 0.009         |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | <0.005       | <0.005       | <0.005       | 0.009        | <0.005       | 0.167        | <0.005       | <0.005        | <0.005        | <0.005        |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | <0.005       | <0.005       | <0.005       | 0.008        | <0.005       | 0.202        | <0.005       | <0.005        | <0.005        | <0.005        |
| Benzo(bk)fluoranthene #                 | TM4/PM30                | ug/l  | <0.008 |            |                      |                     | 0.015        | <0.008       | <0.008       | <0.008       | <0.008       | 0.574        | <0.008       | 0.012         | <0.008        | <0.008        |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.005                | 3                   | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       | 0.328        | <0.005       | 0.006         | <0.005        | <0.005        |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 1                   | 0.007        | <0.005       | <0.005       | <0.005       | <0.005       | 0.276        | <0.005       | 0.006         | <0.005        | <0.005        |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |            |                      |                     | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.056        | <0.005       | <0.005        | <0.005        | <0.005        |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 1                   | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       | 0.278        | <0.005       | 0.006         | <0.005        | <0.005        |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 | RPV        | 0.1                  | 5                   | <0.173       | 0.247        | 0.349        | 3.316        | <0.173       | 2.644        | 1.882        | <0.173        | <0.173        | <0.173        |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | UKTAG      | 0.05                 | 1                   | 0.011        | <0.008       | <0.008       | <0.008       | <0.008       | 0.413        | <0.008       | 0.009         | <0.008        | <0.008        |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | UKTAG      | 0.05                 | 1                   | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.161        | <0.008       | <0.008        | <0.008        | <0.008        |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |            |                      |                     | 76           | 74           | 80           | 85           | 105          | 90           | 79           | 90            | 89            | 85            |
| VOC TICs                                | TM15/PM10               | None  |        |            |                      |                     | ND           | NA           | ND           | ND           | ND           | NA           | ND           | ND            | ND            | NA            |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   | WFD        | 15                   | 0                   | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | UKTAG      | 0.5                  | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | UKTAG      | 350                  | 0                   | <5           | NA           | <5           | <5           | <5           | NA           | <5           | <5            | <5            | NA            |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     | WHO        | 300                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | WHO        | 500                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | WHO        | 500                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |            |                      |                     | 89           | NA           | 101          | 96           | 95           | NA           | 97           | 91            | 97            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |            |                      |                     | 92           | NA           | 96           | 92           | 94           | NA           | 93           | 89            | 93            | NA            |
| TPH CWG                                 |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Aliphatics                              |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    | WHO        | 15000                | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    | WHO        | 15000                | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    | WHO        | 300                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     | WHO        | 300                  | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    | WHO        | 300                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |            |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |            |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |            |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Aromatics                               |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | DWS        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |

| Risks to Groundwater                               |                         |       |       |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|----------------------------------------------------|-------------------------|-------|-------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                    |                         |       |       |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                                    |                         |       |       |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                    |                         |       |       |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                                    |                         |       |       |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                               | Method                  | Units | LOD   | GAC Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| >EC7-EC8 <sup>#</sup>                              | TM36/PM12               | ug/l  | <10   | DWS        | 700                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC8-EC10 <sup>#</sup>                             | TM36/PM12               | ug/l  | <10   | DWS        | 500                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC10-EC12 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <5    | WHO        | 90                   | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >EC12-EC16 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   | WHO        | 90                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC16-EC21 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   | WHO        | 90                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC21-EC35 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   | WHO        | 90                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aromatics C5-35 <sup>#</sup>                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |            |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics and aromatics(C5-35) <sup>#</sup> | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |            |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total Phenols HPLC                                 | TM26/PM0                | mg/l  | <0.15 | WFD        | 4.08                 | 0                   | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15         | <0.15         | <0.15         |
|                                                    |                         |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Sulphate as SO4 <sup>#</sup>                       | TM89/PM0                | mg/l  | <0.5  | WFD        | 188                  | 0                   | 179.3        | 187.4        | 95.6         | 146.3        | 89.8         | 77.9         | 159.4        | 45.9          | 40            | 37.5          |
| Chloride <sup>#</sup>                              | TM38/PM0                | mg/l  | <0.3  | WFD        | 188                  | 0                   | 13.1         | 33.9         | 45.9         | 130.3        | 22           | 25.3         | 58.1         | 46.1          | 45.8          | 45.7          |
| Nitrate as NO3 <sup>#</sup>                        | TM38/PM0                | mg/l  | <0.2  | WFD        | 37.5                 | 0                   | 8.9          | <0.2         | 16.2         | <0.2         | 0.4          | 0.5          | <0.2         | 19.3          | 22.1          | 25.2          |
| Nitrite as NO2 <sup>#</sup>                        | TM38/PM0                | mg/l  | <0.02 | DWD        | 500                  | 0                   | 0.05         | <0.02        | 0.25         | <0.02        | 0.7          | <0.02        | <0.02        | 0.06          | 0.07          | 0.1           |
| Ortho Phosphate as PO4 <sup>#</sup>                | TM38/PM0                | mg/l  | <0.06 |            |                      |                     | <0.06        | 0.3          | 0.63         | 0.14         | 0.08         | 0.13         | 1.51         | 0.52          | 0.57          | 0.59          |
| Total Cyanide <sup>#</sup>                         | TM89/PM0                | mg/l  | <0.01 | DWD        | 50                   | 0                   | 0.02         | 0.03         | <0.01        | 0.03         | 0.02         | 0.03         | 0.02         | <0.01         | <0.01         | <0.01         |
| Ammoniacal Nitrogen as N <sup>#</sup>              | TM38/PM0                | mg/l  | <0.03 | DWS        | 0.29                 | 6                   | 0.72         | 7.86         | 0.41         | 12.96        | 1.72         | 0.1          | 17.97        | 0.04          | 0.04          | 0.05          |
| Hexavalent Chromium                                | TM38/PM0                | ug/l  | <6    | UKTAG      | 5                    | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Dissolved Chromium III                       | TM0/PM0                 | ug/l  | <6    |            |                      |                     | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Alkalinity as CaCO3 <sup>#</sup>             | TM75/PM0                | mg/l  | <1    |            |                      |                     | 592          | 830          | 298          | 674          | 162          | 266          | 842          | 248           | 264           | 262           |
| BTEX                                               |                         |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| MTBE <sup>#</sup>                                  | TM36/PM12               | ug/l  | <5    | WFD        | 15                   | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Benzene <sup>#</sup>                               | TM36/PM12               | ug/l  | <5    | UKTAG      | 0.5                  | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Toluene <sup>#</sup>                               | TM36/PM12               | ug/l  | <5    | UKTAG      | 350                  | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Ethylbenzene <sup>#</sup>                          | TM36/PM12               | ug/l  | <5    | RPV        | 300                  | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| m/p-Xylene <sup>#</sup>                            | TM36/PM12               | ug/l  | <5    | RPV        | 500                  | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| o-Xylene <sup>#</sup>                              | TM36/PM12               | ug/l  | <5    | RPV        | 500                  | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Phenols                                            |                         |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| 2-Chlorophenol <sup>#</sup>                        | TM16/PM30               | ug/l  | <0.5  | UKTAG      | 150                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| 2-Methylphenol <sup>#</sup>                        | TM16/PM30               | ug/l  | <0.5  |            |                      | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5          | <0.5          | NA            |
| 2-Nitrophenol                                      | TM16/PM30               | ug/l  | <0.5  |            |                      | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5          | <0.5          | NA            |
| 2,4-Dichlorophenol <sup>#</sup>                    | TM16/PM30               | ug/l  | <1    |            | 100                  | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5          | <0.5          | NA            |
| 2,4-Dimethylphenol                                 | TM16/PM30               | ug/l  | <0.5  |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| 2,4,5-Trichlorophenol <sup>#</sup>                 | TM16/PM30               | ug/l  | <1    |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5          | <0.5          | NA            |
| 2,4,6-Trichlorophenol                              | TM16/PM30               | ug/l  | <0.5  | RPV        | 200                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| 4-Chloro-3-methylphenol <sup>#</sup>               | TM16/PM30               | ug/l  | <1    | UKTAG      | 350                  | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5          | <0.5          | NA            |
| 4-Methylphenol                                     | TM16/PM30               | ug/l  | <10   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| 4-Nitrophenol                                      | TM16/PM30               | ug/l  | <1    |            |                      |                     | <10          | NA           | <10          | <10          | <10          | <10          | NA           | <10           | <10           | NA            |
| Pentachlorophenol                                  | TM16/PM30               | ug/l  | <1    | UKTAG      | 0.05                 | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| Phenol                                             | TM16/PM30               | ug/l  |       | WFD        | 4.08                 | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| PAHS                                               |                         |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| 2-Chloronaphthalene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| 2-Methylnaphthalene <sup>#</sup>                   | TM16/PM30               | ug/l  |       |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| Phthalates                                         |                         |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Bis(2-ethylhexyl) phthalate                        | TM16/PM30               | ug/l  | <1    |            |                      |                     | <5           | NA           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | NA            |
| Butylbenzyl phthalate                              | TM16/PM30               | ug/l  | <1.5  |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| Di-n-butyl phthalate <sup>#</sup>                  | TM16/PM30               | ug/l  | <1    |            |                      |                     | <1.5         | NA           | <1.5         | <1.5         | <1.5         | <1.5         | NA           | <1.5          | <1.5          | NA            |
| Di-n-Octyl phthalate                               | TM16/PM30               | ug/l  | <1    |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| Diethyl phthalate <sup>#</sup>                     | TM16/PM30               | ug/l  | <1    |            |                      |                     | 1            | NA           | <1           | <1           | <1           | <1           | NA           | 2             | <1            | NA            |
| Dimethyl phthalate                                 | TM16/PM30               | ug/l  |       |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| Other SVOCs                                        |                         |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| 1,2-Dichlorobenzene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    | RPV        | 600                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| 1,2,4-Trichlorobenzene <sup>#</sup>                | TM16/PM30               | ug/l  | <1    | UKTAG      | 35                   | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |
| 1,3-Dichlorobenzene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | NA           | <1            | <1            | NA            |



| Risks to Groundwater                      |           |       |      |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|-------------------------------------------|-----------|-------|------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                           |           |       |      |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                           |           |       |      |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                           |           |       |      |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                           |           |       |      |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                      | Method    | Units | LOD  | GAC Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | RPV        | 800                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2,4-Dinitrotoluene <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,6-Dinitrotoluene                        | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 3-Nitroaniline                            | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Bromophenylphenylether <sup>#</sup>     | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Chloroaniline                           | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Chlorophenylphenylether <sup>#</sup>    | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Azobenzene <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Bis(2-chloroethoxy)methane <sup>#</sup>   | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Bis(2-chloroethyl)ether <sup>#</sup>      | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Carbazole <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Dibenzofuran <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Hexachlorobenzene <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | UKTAG      | 0.05                 | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachlorobutadiene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | UKTAG      | 0.05                 | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachlorocyclopentadiene                 | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachloroethane <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Isophorone <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| N-nitrosodi-n-propylamine <sup>#</sup>    | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Nitrobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <0   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Surrogate Recovery 2-Fluorobiphenyl       | TM16/PM30 | %     | <0   |            |                      |                     | 127          | NA           | 104          | 129          | 97           | NA           | 113          | 127           | 124           | NA            |
| Surrogate Recovery p-Terphenyl-d14        | TM16/PM30 | %     |      |            |                      |                     | 129          | NA           | 109          | 131          | 104          | NA           | 120          | 128           | 127           | NA            |
| VOC MS                                    |           |       |      |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Dichlorodifluoromethane                   | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Methyl Tertiary Butyl Ether <sup>#</sup>  | TM15/PM10 | ug/l  | <0.1 |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Chloromethane <sup>#</sup>                | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Vinyl Chloride <sup>#</sup>               | TM15/PM10 | ug/l  | <0.1 | UKTAG      | 0.25                 | 0                   | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Bromomethane                              | TM15/PM10 | ug/l  | <1   |            |                      | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Chloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3           | NA           | <3           | 5            | <3           | NA           | <3           | <3            | <3            | NA            |
| Trichlorofluoromethane <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup> | TM15/PM10 | ug/l  | <3   | RPV        | 7                    | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Dichloromethane (DCM) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | RPV        | 5                    | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| trans-1-2-Dichloroethene <sup>#</sup>     | TM15/PM10 | ug/l  | <3   | WFD        | 50                   | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,1-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <3   | WFD        | 7                    | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| cis-1-2-Dichloroethene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   | WFD        | 50                   | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 2,2-Dichloropropane                       | TM15/PM10 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Bromochloromethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Chloroform <sup>#</sup>                   | TM15/PM10 | ug/l  | <2   | WFD        | 1.29                 | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1,1-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   | WFD        | 200                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1-Dichloropropene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Carbon tetrachloride <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | UKTAG      | 1.5                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   | WFD        | 3                    | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Benzene <sup>#</sup>                      | TM15/PM10 | ug/l  | <0.5 | UKTAG      | 0.5                  | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Trichloroethene (TCE) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | UKTAG      | 5                    | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | RPV        | 5                    | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Dibromomethane <sup>#</sup>               | TM15/PM10 | ug/l  | <3   | RPV        | 400                  | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Bromodichloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | WFD        | 60                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| cis-1-3-Dichloropropene                   | TM15/PM10 | ug/l  | <2   | WFD        | 20                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Toluene <sup>#</sup>                      | TM15/PM10 | ug/l  | <5   | UKTAG      | 350                  | 0                   | <5           | NA           | <5           | <5           | <5           | NA           | <5           | <5            | <5            | NA            |
| trans-1-3-Dichloropropene                 | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1,2-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   | DWS        | 5                    | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Tetrachloroethene (PCE) <sup>#</sup>      | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,3-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | DWS        | 20                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Dibromochloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | DWS        | 100                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |

| Risks to Groundwater                    |            |       |       |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|-----------------------------------------|------------|-------|-------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |            |       |       |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                         |            |       |       |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |            |       |       |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                         |            |       |       |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                    | Method     | Units | LOD   | GAC Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| 1,2-Dibromoethane <sup>#</sup>          | TM15/PM10  | ug/l  | <2    | DWS        | 0.4                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Chlorobenzene <sup>#</sup>              | TM15/PM10  | ug/l  | <2    | RPV        | 100                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1,1,2-Tetrachloroethane <sup>#</sup>  | TM15/PM10  | ug/l  | <2    |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Ethylbenzene <sup>#</sup>               | TM15/PM10  | ug/l  | <1    | RPV        | 300                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| m/p-Xylene <sup>#</sup>                 | TM15/PM10  | ug/l  | <2    | DWS        | 500                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| o-Xylene <sup>#</sup>                   | TM15/PM10  | ug/l  | <1    | DWS        | 500                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Styrene                                 | TM15/PM10  | ug/l  | <2    | DWS        | 20                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Bromoform <sup>#</sup>                  | TM15/PM10  | ug/l  | <2    |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Isopropylbenzene <sup>#</sup>           | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,1,2,2-Tetrachloroethane               | TM15/PM10  | ug/l  | <4    |            |                      |                     | <4           | NA           | <4           | <4           | <4           | NA           | <4           | <4            | <4            | NA            |
| Bromobenzene <sup>#</sup>               | TM15/PM10  | ug/l  | <2    |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2,3-Trichloropropane <sup>#</sup>     | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Propylbenzene <sup>#</sup>              | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 2-Chlorotoluene <sup>#</sup>            | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,3,5-Trimethylbenzene <sup>#</sup>     | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 4-Chlorotoluene <sup>#</sup>            | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| tert-Butylbenzene <sup>#</sup>          | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,4-Trimethylbenzene <sup>#</sup>     | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| sec-Butylbenzene <sup>#</sup>           | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 4-Isopropyltoluene <sup>#</sup>         | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,3-Dichlorobenzene <sup>#</sup>        | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,4-Dichlorobenzene <sup>#</sup>        | TM15/PM10  | ug/l  | <3    | DWS        | 80                   | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| n-Butylbenzene <sup>#</sup>             | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2-Dichlorobenzene <sup>#</sup>        | TM15/PM10  | ug/l  | <3    | DWS        | 600                  | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2-Dibromo-3-chloropropane             | TM15/PM10  | ug/l  | <2    | DWS        | 0.2                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2,4-Trichlorobenzene                  | TM15/PM10  | ug/l  | <3    | DWS        | 35                   | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Hexachlorobutadiene                     | TM15/PM10  | ug/l  | <3    | UKTAG      | 0.05                 | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Naphthalene                             | TM15/PM10  | ug/l  | <2    | DWS        | 0.075                | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2,3-Trichlorobenzene                  | TM15/PM10  | ug/l  | <3    | WFD        | 0.01                 | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Surrogate Recovery Toluene D8           | TM15/PM10  | %     | <0    |            |                      |                     | 89           | NA           | 101          | 96           | 95           | NA           | 97           | 91            | 97            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10  | %     | <0    |            |                      |                     | 92           | NA           | 96           | 92           | 94           | NA           | 93           | 89            | 93            | NA            |
|                                         |            |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| SVOC TICs                               | TM16/PM30  | None  |       |            |                      |                     | ND           | NA           | ND           | ND           | ND           | NA           | ND           | ND            | ND            | NA            |
| Cyclic octaatomic sulfur                | TM16/PM30  | ug/l  | <100  |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Pesticides                              |            |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Organochlorine Pesticides               |            |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Aldrin                                  | TM149/PM30 | ug/l  | <0.01 | UKTAG      | 0.015                | 0                   | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Alpha-HCH (BHC)                         | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Beta-HCH (BHC)                          | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Delta-HCH (BHC)                         | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Dieldrin                                | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan I                           | TM149/PM30 | ug/l  | <0.01 | UKTAG      | 10                   | 0                   | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan II                          | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan sulphate                    | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endrin                                  | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Gamma-HCH (BHC)                         | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | 0.02         | NA           | 0.02         | 0.02         | <0.01        | NA           | 0.04         | <0.01         | <0.01         | NA            |
| Heptachlor                              | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Heptachlor Epoxide                      | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| o,p'-Methoxychlor                       | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-DDE                                | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| p,p'-DDT                                | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-Methoxychlor                       | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-TDE                                | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Organophosphorus Pesticides             |            |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |

| Risks to Groundwater        |             |       |       |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|-----------------------------|-------------|-------|-------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                             |             |       |       |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                             |             |       |       |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                             |             |       |       |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                             |             |       |       |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                        | Method      | Units | LOD   | GAC Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| Azinphos methyl             | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| Diazinon                    | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Dichlorvos                  | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Disulfoton                  | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Ethion                      | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Ethyl Parathion (Parathion) | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Fenitrothion                | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Malathion                   | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Methyl Parathion            | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Mevinphos                   | TM149/PM30  | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Acid Herbicides             |             |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Benazolin                   | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Bentazone                   | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Bromoxynil                  | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Clopyralid                  | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 4-CPA                       | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4-D                       | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4-DB                      | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Dicamba                     | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Dichloroprop                | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Diclofop                    | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Fenoprop                    | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Flamprop                    | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Flamprop-isopropyl          | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Ioxynil                     | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| MCPA                        | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| MCPB                        | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Mecoprop                    | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Picloram                    | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Pentachlorophenol           | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4,5-T                     | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,3,6-TBA                   | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Triclopyr                   | TM42/PM30   | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| PFAAS                       |             |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| PFBA                        | TM135/PM121 | ug/l  | <0.05 |            | 10                   | 0                   | 0.009        | NA           | 0.009        | 0.096        | <0.010       | NA           | 0.069        | 0.009         | 0.006         | NA            |
| PFPeA                       | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | 0.03         | NA           | 0.013        | 0.022        | <0.010       | NA           | 0.017        | 0.006         | 0.005         | NA            |
| PFHxA                       | TM135/PM121 | ug/l  | <0.05 |            | 6                    | 0                   | 0.023        | NA           | 0.012        | 0.036        | 0.021        | NA           | 0.029        | 0.005         | 0.005         | NA            |
| PFHpA                       | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | 0.013        | NA           | <0.005       | 0.017        | <0.010       | NA           | 0.011        | 0.002         | 0.002         | NA            |
| PFOA                        | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | 0.037        | NA           | 0.0159       | 0.0616       | 0.0251       | NA           | 0.0338       | 0.0081        | 0.0059        | NA            |
| PFNA                        | TM135/PM121 | ug/l  | <0.05 |            | 0.06                 | 0                   | 0.002        | NA           | <0.005       | <0.005       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDA                        | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFUnA                       | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDoA                       | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |



| Risks to Groundwater |             |       |       |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|----------------------|-------------|-------|-------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                      |             |       |       |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                      |             |       |       |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                      |             |       |       |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                      |             |       |       |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                 | Method      | Units | LOD   | GAC Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| PFTrDA               | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.006       | NA           | <0.030       | <0.006       | <0.060       | NA           | <0.006       | <0.006        | <0.006        | NA            |
| PFTeDA               | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFHxDA               | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.01        | NA           | <0.05        | <0.01        | <0.10        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| PFODA                | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.025       | NA           | <0.125       | <0.025       | <0.250       | NA           | <0.025       | <0.025        | <0.025        | NA            |
| PFBS                 | TM135/PM121 | ug/l  | <0.05 |            | 6                    | 0                   | 0.007        | NA           | 0.008        | 0.024        | 0.033        | NA           | 0.018        | 0.006         | 0.006         | NA            |
| PFPeS                | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | 0.002        | NA           | <0.005       | 0.009        | <0.010       | NA           | 0.006        | <0.001        | <0.001        | NA            |
| PFHxS                | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | 0.023        | NA           | 0.012        | 0.067        | 0.014        | NA           | 0.044        | 0.005         | 0.004         | NA            |
| PFHpS                | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | 0.002        | NA           | <0.005       | 0.014        | <0.010       | NA           | 0.001        | <0.001        | <0.001        | NA            |
| PFOS                 | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | 0.0576       | NA           | 0.0184       | 0.0269       | 0.0598       | NA           | 0.0291       | 0.009         | 0.0108        | NA            |
| PFNS                 | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDS                 | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFUnDS               | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDoDS               | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFTrDS               | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| HFPO-DA (Gen X)      | TM135/PM121 | ug/l  | <0.05 |            | 0.06                 | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| HFPO-TA              | TM135/PM121 | ug/l  | <1    |            |                      | 0                   | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| DONA                 | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFMOPrA              | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | <0.010       | NA           | <0.005       | <0.010       | <0.010       | NA           | <0.010       | <0.010        | <0.010        | NA            |
| NFDHA                | TM135/PM121 | ug/l  | <0.1  |            |                      | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.005       | <0.001        | <0.001        | NA            |
| PFMOBA               | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | <0.010       | NA           | <0.005       | <0.010       | <0.010       | NA           | <0.010       | <0.010        | <0.010        | NA            |
| PFECHS               | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | 0.003        | NA           | <0.005       | 0.118        | <0.010       | NA           | 0.026        | <0.001        | <0.001        | NA            |
| 3:3 FTCA             | TM135/PM121 | ug/l  | <0.1  |            |                      | 0                   | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| 5:3 FTCA             | TM135/PM121 | ug/l  | <0.5  |            |                      | 0                   | <0.01        | NA           | <0.05        | <0.01        | <0.10        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| 7:3 FTCA             | TM135/PM121 | ug/l  | <0.1  |            |                      | 0                   | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| PFEESA               | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 9Cl-PF3ONS           | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 11Cl-PF3OUdS         | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 4:2 FTS              | TM135/PM121 | ug/l  | <0.2  |            |                      | 0                   | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| 6:2 FTS              | TM135/PM121 | ug/l  | <0.2  |            | 0.1                  | 0                   | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| 8:2 FTS              | TM135/PM121 | ug/l  | <0.2  |            | 0.2                  | 0                   | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| FBSA                 | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| FHxSA                | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| FOSA                 | TM135/PM121 | ug/l  | <1    |            | 0.1                  | 0                   | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-MeFOSA             | TM135/PM121 | ug/l  | <1    |            |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-EtFOSA             | TM135/PM121 | ug/l  | <1    |            |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| Me-FOSE              | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| Et-FOSE              | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| N-MeFOSAA            | TM135/PM121 | ug/l  | <1    |            | 0.07                 | 0                   | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-EtFOSAA            | TM135/PM121 | ug/l  | <1    |            | 0.07                 | 0                   | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | 0.027        | <0.005        | <0.005        | NA            |
| 8:2diPAP             | TM135/PM121 | ug/l  | <0.2  |            |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| FOUEA                | TM135/PM121 | ug/l  | <1    |            |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| Total PFAS           |             | ug/l  |       |            | 0.5                  | 0                   | 0.2086       | 0            | 0.0883       | 0.4915       | 0.1529       | 0            | 0.3109       | 0.0501        | 0.0447        | 0             |

| Risks to Groundwater           |                |          |        |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------|----------------|----------|--------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                |                |          |        |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                |                |          |        |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                |                |          |        |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                |                |          |        |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                           | Method         | Units    | LOD    | GAC Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dioxane*                   | Subcontracted/ | ug/l     | <0.07  |            | 50                   | 0                   | <0.35        | 45.7         |              | 46.5         |              |              | <0.77        | <0.35         |               |               |
| BOD (Settled) #                | TM58/PM0       | mg/l     | <1     |            |                      |                     | <2           | 11           | <2           | <8           | <3           | <2           | 33           | <2            | <2            | 2             |
| COD (Settled) #                | TM57/PM0       | mg/l     | <7     |            |                      |                     | 56           | 72           | 11           | 109          | 38           | 19           | 99           | 23            | 20            | 16            |
| Dissolved Oxygen               | TM58/PM0       | mg/l     | <1     |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Dissolved Organic Carbon #     | TM60/PM0       | mg/l     | <2     |            |                      |                     | 14           | 19           | 3            | 31           | 11           | 7            | 27           | 3             | 3             | 3             |
| Electrical Conductivity @25C # | TM76/PM0       | uS/cm    | <2     |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Free Ammonia as NH3            | TM176/PM0      | mg/l     | <0.007 |            |                      |                     | <0.007       | 0.111        | <0.007       | 0.33         | 0.017        | <0.007       | 0.212        | <0.007        | <0.007        | <0.007        |
| pH #                           | TM73/PM0       | pH units | <0.01  |            |                      |                     | 7.85         | 7.64         | 7.35         | 7.99         | 7.16         | 7.39         | 7.89         | 7.77          | 7.85          | 7.85          |
| Total Dissolved Solids #       | TM20/PM0       | mg/l     | <35    |            |                      |                     |              |              |              |              |              |              |              |               |               |               |

| Risks to Groundwater                |           |       |        |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-------------------------------------|-----------|-------|--------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                     |           |       |        |            | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                     |           |       |        |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                     |           |       |        |            | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                     |           |       |        |            | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                | Method    | Units | LOD    | C Sou      | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Metals                              |           |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dissolved Arsenic #                 | TM30/PM14 | ug/l  | <2.5   | UKTAG      | 5                    | 6                   | 8.1          | 6.8          | 1.2          | 6.4          | 8.6          | 2.6          | 2.9          | 51.9         | 17.3         | <0.9         | <0.9         | 4.4          | 1.1           | 1.2           | 1.1           |
| Dissolved Beryllium                 | TM30/PM14 | ug/l  | <0.5   | RPV        | 4                    | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Boron                     | TM30/PM14 | ug/l  | <12    | WFD        | 750                  | 4                   | 1060         | 957          | 83           | 1954         | 151          | 142          | 1455         | 81           | 226          | 405          | 445          | 477          | 58            | 48            | 48            |
| Dissolved Cadmium #                 | TM30/PM14 | ug/l  | <0.5   | WFD Min TV | 3.75                 | 0                   | <0.03        | <0.03        | 0.03         | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03         | <0.03         | <0.03         |
| Total Dissolved Chromium #          | TM30/PM14 | ug/l  | <1.5   | WFD        | 37.5                 | 0                   | 1.3          | 0.9          | <0.2         | 0.4          | 0.6          | 0.3          | 1.3          | 0.4          | 0.6          | 0.7          | 0.8          | 0.8          | 0.3           | 0.2           | 0.2           |
| Dissolved Copper #                  | TM30/PM14 | ug/l  | <7     | WFD        | 1500                 | 0                   | <1           | <1           | 2            | <3           | 6            | 7            | <3           | <1           | <1           | <1           | <1           | <3           | 3             | 2             | 2             |
| Total Dissolved Iron #              | TM30/PM14 | ug/l  | <20    | DWD        | 200                  | 7                   | 8513.4       | 5239.2       | 29.4         | <0.4         | 428.8        | 97.3         | <3           | 30062.7      | 7925.2       | 18239.6      | 14861        |              | 28.9          | 24.3          | 26.4          |
| Dissolved Lead #                    | TM30/PM14 | ug/l  | <5     | UKTAG      | 5                    | 0                   | <0.4         | <0.4         | <0.4         | <0.4         | 0.8          | 0.7          | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4          | <0.4          | <0.4          |
| Dissolved Mercury #                 | TM30/PM14 | ug/l  | <1     | UKTAG      | 0.5                  | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Nickel #                  | TM30/PM14 | ug/l  | <2     | WFD        | 15                   | 0                   | 3.5          | 1.6          | 3.5          | 3.7          | 4.2          | 6.7          | 0.7          | 1.3          | 2.7          | 0.7          | 2.5          | 2.2          | 1.7           | 1.6           | 1.9           |
| Dissolved Selenium #                | TM30/PM14 | ug/l  | <3     | WFD        | 7.5                  | 0                   | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | 1.3          | <1.2         | <1.2         | <1.2         | <1.2         | <1.2          | <1.2          | <1.2          |
| Dissolved Vanadium #                | TM30/PM14 | ug/l  | <1.5   |            |                      |                     | 5.2          | 2.5          | 4.1          | 2.7          | 9.4          | 9.4          | 6.1          | 1.5          | 2.9          | 0.7          | 1            | 2.1          | 1.9           | 1.9           | 1.8           |
| Dissolved Zinc #                    | TM30/PM14 | ug/l  | <3     | WFD        | 5000                 | 0                   | 4.8          | 2.8          | 4.4          | 4.3          | 5.9          | 15.6         | 3.5          | 2.4          | 5.5          | 3.7          | 3            | 8            | 9.9           | 7.4           | 8.1           |
| Total Hardness Dissolved (as CaCO3) | TM30/PM14 | mg/l  | <1     |            |                      |                     | 1168         | 1043         | 330          | 611          | 330          | 293          | 1169         | 795          | 858          | 1027         | 789          | 934          | 251           | 257           | 263           |
| PAH MS                              |           |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Naphthalene #                       | TM4/PM30  | ug/l  | <0.1   | WFD        | 0.075                | 1                   | <0.1         | 19.9         | <0.1         | <0.1         | <0.1         | <0.1         |              | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1          | <0.1          | <0.1          |
| Acenaphthylene #                    | TM4/PM30  | ug/l  | <0.005 |            |                      |                     | <0.005       | <0.005       | <0.005       | 0.02         | 0.007        | 0.035        | <0.1         | <0.005       | <0.005       | <0.005       | <0.005       | 0.035        | <0.005        | <0.005        | <0.005        |
| Acenaphthene #                      | TM4/PM30  | ug/l  | <0.005 |            |                      |                     | 0.103        | 2.543        | 0.303        | 0.929        | <0.005       | 0.208        | 0.039        | 0.008        | 0.008        | 1.013        | 0.925        | 1.199        | <0.005        | <0.005        | <0.005        |
| Fluorene #                          | TM4/PM30  | ug/l  | <0.005 |            |                      |                     | <0.005       | 1.227        | 0.105        | 0.073        | <0.005       | 0.061        | 1.416        | 0.008        | 0.009        | 0.853        | 0.61         | 0.261        | <0.005        | <0.005        | <0.005        |
| Phenanthrene #                      | TM4/PM30  | ug/l  | <0.005 |            |                      |                     | <0.005       | 0.913        | 0.014        | 0.075        | <0.005       | 0.065        | 0.171        | <0.005       | 0.008        | 0.257        | 0.039        | 0.044        | <0.005        | <0.005        | <0.005        |
| Anthracene #                        | TM4/PM30  | ug/l  | <0.005 | UKTAG      | 0.05                 | 6                   | 0.012        | 0.184        | 0.009        | 0.055        | 0.026        | 0.062        | 0.012        | <0.005       | 0.005        | 0.097        | 0.069        | 0.171        | <0.005        | <0.005        | <0.005        |
| Fluoranthene #                      | TM4/PM30  | ug/l  | <0.005 | WFD        | 0.075                | 5                   | 0.016        | 0.098        | 0.025        | 0.135        | 0.007        | 0.277        | 0.045        | 0.005        | 0.011        | 0.163        | 0.068        | 1.871        | 0.011         | <0.005        | 0.015         |
| Pyrene #                            | TM4/PM30  | ug/l  | <0.005 |            |                      |                     | 0.011        | 0.06         | 0.019        | 0.095        | 0.007        | 0.313        | 0.067        | 0.005        | 0.012        | 0.112        | 0.052        | 1.244        | 0.009         | <0.005        | 0.013         |
| Benzo(a)anthracene #                | TM4/PM30  | ug/l  | <0.005 |            |                      |                     | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.142        | 0.047        | <0.005       | 0.011        | 0.025        | 0.013        | 0.184        | <0.005        | <0.005        | <0.005        |
| Chrysene #                          | TM4/PM30  | ug/l  | <0.005 |            |                      |                     | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.184        | 0.012        | <0.005       | 0.007        | 0.021        | 0.014        | 0.195        | <0.005        | <0.005        | <0.005        |
| Benzo(bk)fluoranthene #             | TM4/PM30  | ug/l  | <0.008 |            |                      |                     | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.52         | 0.012        | <0.008       | 0.016        | 0.021        | 0.01         | 0.157        | <0.008        | <0.008        | <0.008        |
| Benzo(a)pyrene #                    | TM4/PM30  | ug/l  | <0.005 | UKTAG      | 0.005                | 8                   | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.284        | 0.012        | <0.005       | 0.009        | 0.01         | 0.006        | 0.087        | 0.007         | <0.005        | 0.007         |
| Indeno(123cd)pyrene #               | TM4/PM30  | ug/l  | <0.005 | UKTAG      | 0.05                 | 1                   | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.216        | 0.006        | <0.005       | 0.007        | 0.006        | <0.005       | 0.047        | <0.005        | <0.005        | 0.006         |
| Dibenzo(ah)anthracene #             | TM4/PM30  | ug/l  | <0.005 |            |                      |                     | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.059        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.008        | <0.005        | <0.005        | <0.005        |
| Benzo(ghi)perylene #                | TM4/PM30  | ug/l  | <0.005 | UKTAG      | 0.05                 | 1                   | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.255        | <0.005       | <0.005       | 0.008        | 0.007        | <0.005       | 0.039        | <0.005        | <0.005        | 0.006         |
| PAH 16 Total #                      | TM4/PM30  | ug/l  | <0.173 | RPV        | 0.1                  | 7                   | <0.173       | 24.925       | 0.475        | 1.382        | <0.173       | 2.681        | <0.005       | <0.173       | <0.173       | 2.585        | 1.806        | 5.542        | <0.173        | <0.173        | <0.173        |
| Benzo(b)fluoranthene                | TM4/PM30  | ug/l  | <0.008 | UKTAG      | 0.05                 | 3                   | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.374        | 1.839        | <0.008       | 0.012        | 0.015        | <0.008       | 0.113        | <0.008        | <0.008        | <0.008        |
| Benzo(k)fluoranthene                | TM4/PM30  | ug/l  | <0.008 | UKTAG      | 0.05                 | 1                   | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.146        | 0.009        | <0.008       | <0.008       | <0.008       | <0.008       | 0.044        | <0.008        | <0.008        | <0.008        |
| PAH Surrogate % Recovery            | TM4/PM30  | %     | <0     |            |                      |                     | 93           | 69           | 97           | 64           | 79           | 95           | <0.008       | 76           | 91           | 91           | 85           | 61           | 90            | 59            | 92            |
| VOC TICs                            | TM15/PM10 | None  |        |            |                      |                     | ND           | NA           | ND           | ND           | ND           | ND           | ND           | NA           | NA           | NA           | NA           | NA           | ND            | ND            | NA            |
| Methyl Tertiary Butyl Ether #       | TM15/PM10 | ug/l  | <0.1   | WFD        | 15                   | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Benzene #                           | TM15/PM10 | ug/l  | <0.5   | UKTAG      | 0.5                  | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Toluene #                           | TM15/PM10 | ug/l  | <5     | UKTAG      | 350                  | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Ethylbenzene #                      | TM15/PM10 | ug/l  | <1     | WHO        | 300                  | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| m/p-Xylene #                        | TM15/PM10 | ug/l  | <2     | WHO        | 500                  | 0                   | <2           | <2           | <2           | <2           | <2           | <2           | <2           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| o-Xylene #                          | TM15/PM10 | ug/l  | <1     | WHO        | 500                  | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Surrogate Recovery Toluene D8       | TM15/PM10 | %     | <0     |            |                      |                     | 107          | 101          | 99           | 110          | 110          | 100          | 108          | NA           | NA           | NA           | NA           | NA           | 100           | 112           | NA            |

| Risks to Groundwater                    |                         |       |       |       | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-----------------------------------------|-------------------------|-------|-------|-------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |                         |       |       |       | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                         |                         |       |       |       | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |                         |       |       |       | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                         |                         |       |       |       | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                    | Method                  | Units | LOD   | C Sou | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0    |       |                      |                     | 107          | 104          | 101          | 103          | 99           | 109          | 98           | NA           | NA           | NA           | NA           | NA           | 100           | 109           | NA            |
| TPH CWG                                 |                         |       |       |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Aliphatics                              |                         |       |       |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10   | WHO   | 15000                | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10   | WHO   | 15000                | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10   | WHO   | 300                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5    | WHO   | 300                  | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10   | WHO   | 300                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10   |       |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10   |       |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |       |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Aromatics                               |                         |       |       |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10   | DWS   | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC7-EC8 #                              | TM36/PM12               | ug/l  | <10   | DWS   | 700                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC8-EC10 #                             | TM36/PM12               | ug/l  | <10   | DWS   | 500                  | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC10-EC12 #                            | TM5/PM16/PM30           | ug/l  | <5    | WHO   | 90                   | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <10          | <10          | <10          | <10          | <5           | <5            | <5            | <5            |
| >EC12-EC16 #                            | TM5/PM16/PM30           | ug/l  | <10   | WHO   | 90                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC16-EC21 #                            | TM5/PM16/PM30           | ug/l  | <10   | WHO   | 90                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC21-EC35 #                            | TM5/PM16/PM30           | ug/l  | <10   | WHO   | 90                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aromatics C5-35 #                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |       |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics and aromatics(C5-35) # | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |       |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total Phenols HPLC                      | TM26/PM0                | mg/l  | <0.15 | WFD   | 4.08                 | 0                   | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15         | <0.15         | <0.15         |
| Other Inorganics                        |                         |       |       |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Sulphate as SO4 #                       | TM89/PM0                | mg/l  | <0.5  | WFD   | 188                  | 1                   | 28.9         | 81.6         | 55.2         | 66           | 165.6        | 84.4         | <0.5         | 3.1          | 223.5        | <0.5         | 9.9          | 36.2         | 37.1          | 34.3          | 34.6          |
| Chloride #                              | TM38/PM0                | mg/l  | <0.3  | WFD   | 188                  | 1                   | 32           | 43.3         | 51.1         | 208.2        | 12.3         | 35.2         | 71.7         | 46.2         | 17.4         | 15.5         | 67.8         | 16.4         | 45            | 43.2          | 43.1          |
| Nitrate as NO3 #                        | TM38/PM0                | mg/l  | <0.2  | WFD   | 37.5                 | 1                   | <0.2         | <0.2         | 5.3          | <0.2         | <0.2         | 4.2          | <0.2         | 45.2         | 0.6          | <0.2         | <0.2         | <0.2         | 19.9          | 20.1          | 19.3          |
| Nitrite as NO2 #                        | TM38/PM0                | mg/l  | <0.02 | DWD   | 500                  | 0                   | <0.02        | <0.02        | 0.18         | <0.02        | <0.02        | 0.03         | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | 0.06          | 0.05          | 0.05          |
| Ortho Phosphate as PO4 #                | TM38/PM0                | mg/l  | <0.06 |       |                      |                     | <0.06        | 0.1          | 0.56         | 0.16         | <0.06        | 0.14         | 0.38         | <0.06        | <0.06        | <0.06        | <0.06        | 0.38         | 0.66          | 0.52          | 0.39          |
| Total Cyanide #                         | TM89/PM0                | mg/l  | <0.01 | DWD   | 50                   | 0                   | 0.02         | 0.02         | <0.01        | 0.03         | 0.01         | <0.01        | 0.1          | <0.01        | 0.02         | <0.01        | <0.01        | 0.33         | <0.01         | <0.01         | <0.01         |
| Ammoniacal Nitrogen as N #              | TM38/PM0                | mg/l  | <0.03 | DWS   | 0.29                 | 10                  | 5.53         | 11.83        | 0.03         | 11.46        | 0.49         | 0.12         | 22.01        | 3.27         | 2.42         | 12.27        | 6.86         | 7.9          | 0.06          | 0.05          | 0.06          |
| Hexavalent Chromium                     | TM38/PM0                | ug/l  | <6    | UKTAG | 5                    | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Dissolved Chromium III            | TM0/PM0                 | ug/l  | <6    |       |                      |                     | <6           | <6           | <6           | <6           | NA           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Alkalinity as CaCO3 #             | TM75/PM0                | mg/l  | <1    |       |                      |                     | 1134         | 868          | 294          | 668          | 192          | 216          | 1064         | 780          | 712          | 1050         | 784          | 790          | 212           | 224           | 228           |
| BTEX                                    |                         |       |       |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| MTBE #                                  | TM36/PM12               | ug/l  | <5    | WFD   | 15                   | 0                   | <0.1         | <0.1         | <0.1         | NA           | NA           | <0.1         | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| Benzene #                               | TM36/PM12               | ug/l  | <5    | UKTAG | 0.5                  | 0                   | <0.5         | <0.5         | <0.5         | NA           | NA           | <0.5         | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| Toluene #                               | TM36/PM12               | ug/l  | <5    | UKTAG | 350                  | 0                   | <5           | <5           | <5           | NA           | NA           | <5           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| Ethylbenzene #                          | TM36/PM12               | ug/l  | <5    | RPV   | 300                  | 0                   | <1           | <1           | <1           | NA           | NA           | <1           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| m/p-Xylene #                            | TM36/PM12               | ug/l  | <5    | RPV   | 500                  | 0                   | <2           | <2           | <2           | NA           | NA           | <2           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| o-Xylene #                              | TM36/PM12               | ug/l  | <5    | RPV   | 500                  | 0                   | <1           | <1           | <1           | NA           | NA           | <1           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| Phenols                                 |                         |       |       |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 2-Chlorophenol #                        | TM16/PM30               | ug/l  | <0.5  | UKTAG | 150                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2-Methylphenol #                        | TM16/PM30               | ug/l  | <0.5  |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |

| Risks to Groundwater                    |           |       |      |       | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-----------------------------------------|-----------|-------|------|-------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |           |       |      |       | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                         |           |       |      |       | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |           |       |      |       | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                         |           |       |      |       | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                    | Method    | Units | LOD  | C Sou | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 2-Nitrophenol                           | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2,4-Dichlorophenol <sup>#</sup>         | TM16/PM30 | ug/l  | <1   |       | 100                  | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2,4-Dimethylphenol                      | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2,4,5-Trichlorophenol <sup>#</sup>      | TM16/PM30 | ug/l  | <1   |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2,4,6-Trichlorophenol                   | TM16/PM30 | ug/l  | <0.5 | RPV   | 200                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Chloro-3-methylphenol <sup>#</sup>    | TM16/PM30 | ug/l  | <1   | UKTAG | 350                  | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 4-Methylphenol                          | TM16/PM30 | ug/l  | <10  |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Nitrophenol                           | TM16/PM30 | ug/l  | <1   |       |                      |                     | <10          | NA           | <10          | <10          | <10          | <10          | <10          | NA           | NA           | NA           | NA           | NA           | <10           | <10           | NA            |
| Pentachlorophenol                       | TM16/PM30 | ug/l  | <1   | UKTAG | 0.05                 | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Phenol                                  | TM16/PM30 | ug/l  |      | WFD   | 4.08                 | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| PAHs                                    |           |       |      |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 2-Chloronaphthalene <sup>#</sup>        | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2-Methylnaphthalene <sup>#</sup>        | TM16/PM30 | ug/l  |      |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Phthalates                              |           |       |      |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Bis(2-ethylhexyl) phthalate             | TM16/PM30 | ug/l  | <1   |       |                      |                     | <5           | NA           | <5           | <5           | <5           | <5           | <5           | NA           | NA           | NA           | NA           | NA           | <5            | <5            | NA            |
| Butylbenzyl phthalate                   | TM16/PM30 | ug/l  | <1.5 |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Di-n-butyl phthalate <sup>#</sup>       | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1.5         | NA           | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | NA           | NA           | NA           | NA           | NA           | <1.5          | <1.5          | NA            |
| Di-n-Octyl phthalate                    | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Diethyl phthalate <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Dimethyl phthalate                      | TM16/PM30 | ug/l  |      |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Other SVOCs                             |           |       |      |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 1,2-Dichlorobenzene <sup>#</sup>        | TM16/PM30 | ug/l  | <1   | RPV   | 600                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 1,2,4-Trichlorobenzene <sup>#</sup>     | TM16/PM30 | ug/l  | <1   | UKTAG | 35                   | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 1,3-Dichlorobenzene <sup>#</sup>        | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 1,4-Dichlorobenzene <sup>#</sup>        | TM16/PM30 | ug/l  | <1   | RPV   | 800                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2-Nitroaniline                          | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2,4-Dinitrotoluene <sup>#</sup>         | TM16/PM30 | ug/l  | <1   |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2,6-Dinitrotoluene                      | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 3-Nitroaniline                          | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Bromophenylphenylether <sup>#</sup>   | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Chloroaniline                         | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Chlorophenylphenylether <sup>#</sup>  | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Nitroaniline                          | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Azobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Bis(2-chloroethoxy)methane <sup>#</sup> | TM16/PM30 | ug/l  | <1   |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Bis(2-chloroethyl)ether <sup>#</sup>    | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Carbazole <sup>#</sup>                  | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Dibenzofuran <sup>#</sup>               | TM16/PM30 | ug/l  | <1   |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Hexachlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | UKTAG | 0.05                 | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Hexachlorobutadiene <sup>#</sup>        | TM16/PM30 | ug/l  | <1   | UKTAG | 0.05                 | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Hexachlorocyclopentadiene               | TM16/PM30 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Hexachloroethane <sup>#</sup>           | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Isophorone <sup>#</sup>                 | TM16/PM30 | ug/l  | <0.5 |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |

| Risks to Groundwater                |           |       |      |       | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-------------------------------------|-----------|-------|------|-------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                     |           |       |      |       | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                     |           |       |      |       | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                     |           |       |      |       | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                     |           |       |      |       | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                | Method    | Units | LOD  | C Sou | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| N-nitrosodi-n-propylamine #         | TM16/PM30 | ug/l  | <1   |       |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Nitrobenzene #                      | TM16/PM30 | ug/l  | <0   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Surrogate Recovery 2-Fluorobiphenyl | TM16/PM30 | %     | <0   |       |                      |                     | 105          | NA           | 89           | 101          | 128          | 97           | 105          | NA           | NA           | NA           | NA           | NA           | 114           | 97            | NA            |
| Surrogate Recovery p-Terphenyl-d14  | TM16/PM30 | %     |      |       |                      |                     | 113          | NA           | 106          | 113          | 142          | 107          | 113          | NA           | NA           | NA           | NA           | NA           | 118           | 104           | NA            |
| VOC MS                              |           |       |      |       |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dichlorodifluoromethane             | TM15/PM10 | ug/l  | <2   |       |                      |                     | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Methyl Tertiary Butyl Ether #       | TM15/PM10 | ug/l  | <0.1 |       |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | NA            |
| Chloromethane #                     | TM15/PM10 | ug/l  | <3   |       |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Vinyl Chloride #                    | TM15/PM10 | ug/l  | <0.1 | UKTAG | 0.25                 | 0                   | <0.1         | NA           | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | NA            |
| Bromomethane                        | TM15/PM10 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Chloroethane #                      | TM15/PM10 | ug/l  | <3   |       |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Trichlorofluoromethane #            | TM15/PM10 | ug/l  | <3   |       |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,1-Dichloroethene (1,1 DCE) #      | TM15/PM10 | ug/l  | <3   | RPV   | 7                    | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Dichloromethane (DCM) #             | TM15/PM10 | ug/l  | <3   | <3    |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| trans-1-2-Dichloroethene #          | TM15/PM10 | ug/l  | <3   | RPV   | 5                    | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| trans-1-2-Dichloroethene #          | TM15/PM10 | ug/l  | <3   | WFD   | 50                   | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,1-Dichloroethane #                | TM15/PM10 | ug/l  | <3   | WFD   | 7                    | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| cis-1-2-Dichloroethene #            | TM15/PM10 | ug/l  | <3   | WFD   | 50                   | 0                   | <3           | NA           | <3           | <1           | <1           | <3           | <1           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 2,2-Dichloropropane                 | TM15/PM10 | ug/l  | <1   |       |                      |                     | <1           | NA           | <1           | <2           | <2           | <1           | <2           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Bromochloromethane #                | TM15/PM10 | ug/l  | <2   |       |                      |                     | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Chloroform #                        | TM15/PM10 | ug/l  | <2   | WFD   | 1.29                 | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,1,1-Trichloroethane #             | TM15/PM10 | ug/l  | <2   | WFD   | 200                  | 0                   | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,1-Dichloropropene #               | TM15/PM10 | ug/l  | <3   |       |                      |                     | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Carbon tetrachloride #              | TM15/PM10 | ug/l  | <2   | UKTAG | 1.5                  | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,2-Dichloroethane #                | TM15/PM10 | ug/l  | <2   | WFD   | 3                    | 0                   | <2           | NA           | <2           | <0.5         | <0.5         | <2           | <0.5         | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Benzene #                           | TM15/PM10 | ug/l  | <0.5 | UKTAG | 0.5                  | 0                   | <0.5         | NA           | <0.5         | <3           | <3           | <0.5         | <3           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Trichloroethene (TCE) #             | TM15/PM10 | ug/l  | <3   | UKTAG | 5                    | 0                   | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2-Dichloropropane #               | TM15/PM10 | ug/l  | <2   | RPV   | 5                    | 0                   | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Dibromomethane #                    | TM15/PM10 | ug/l  | <3   | RPV   | 400                  | 0                   | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Bromodichloromethane #              | TM15/PM10 | ug/l  | <2   | WFD   | 60                   | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| cis-1-3-Dichloropropene             | TM15/PM10 | ug/l  | <2   | WFD   | 20                   | 0                   | <2           | NA           | <2           | <5           | <5           | <2           | <5           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Toluene #                           | TM15/PM10 | ug/l  | <5   | UKTAG | 350                  | 0                   | <5           | NA           | <5           | <2           | <2           | <5           | <2           | NA           | NA           | NA           | NA           | NA           | <5            | <5            | NA            |
| trans-1-3-Dichloropropene           | TM15/PM10 | ug/l  | <2   |       |                      |                     | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,1,2-Trichloroethane #             | TM15/PM10 | ug/l  | <2   | DWS   | 5                    | 0                   | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Tetrachloroethene (PCE) #           | TM15/PM10 | ug/l  | <3   |       |                      |                     | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,3-Dichloropropane #               | TM15/PM10 | ug/l  | <2   | DWS   | 20                   | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Dibromochloromethane #              | TM15/PM10 | ug/l  | <2   | DWS   | 100                  | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,2-Dibromoethane #                 | TM15/PM10 | ug/l  | <2   | DWS   | 0.4                  | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Chlorobenzene #                     | TM15/PM10 | ug/l  | <2   | RPV   | 100                  | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,1,1,2-Tetrachloroethane #         | TM15/PM10 | ug/l  | <2   |       |                      |                     | <2           | NA           | <2           | <1           | <1           | <2           | <1           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Ethylbenzene #                      | TM15/PM10 | ug/l  | <1   | RPV   | 300                  | 0                   | <1           | NA           | <1           | <2           | <2           | <1           | <2           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| m/p-Xylene #                        | TM15/PM10 | ug/l  | <2   | DWS   | 500                  | 0                   | <2           | NA           | <2           | <1           | <1           | <2           | <1           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| o-Xylene #                          | TM15/PM10 | ug/l  | <1   | DWS   | 500                  | 0                   | <1           | NA           | <1           | <2           | <2           | <1           | <2           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |



| Risks to Groundwater                    |             |       |          |          | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-----------------------------------------|-------------|-------|----------|----------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |             |       |          |          | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                         |             |       |          |          | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |             |       |          |          | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                         |             |       |          |          | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                    | Method      | Units | LOD      | C Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Styrene                                 | TM15/PM10   | ug/l  | <2       | DWS      | 20                   | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Bromoform <sup>#</sup>                  | TM15/PM10   | ug/l  | <2       |          |                      |                     | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Isopropylbenzene <sup>#</sup>           | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <4           | <4           | <3           | <4           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,1,2,2-Tetrachloroethane               | TM15/PM10   | ug/l  | <4       |          |                      |                     | <4           | NA           | <4           | <2           | <2           | <4           | <2           | NA           | NA           | NA           | NA           | NA           | <4            | <4            | NA            |
| Bromobenzene <sup>#</sup>               | TM15/PM10   | ug/l  | <2       |          |                      |                     | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,2,3-Trichloropropane <sup>#</sup>     | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Propylbenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 2-Chlorotoluene <sup>#</sup>            | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,3,5-Trimethylbenzene <sup>#</sup>     | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 4-Chlorotoluene <sup>#</sup>            | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| tert-Butylbenzene <sup>#</sup>          | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2,4-Trimethylbenzene <sup>#</sup>     | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| sec-Butylbenzene <sup>#</sup>           | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 4-Isopropyltoluene <sup>#</sup>         | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,3-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,4-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3       | DWS      | 80                   | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| n-Butylbenzene <sup>#</sup>             | TM15/PM10   | ug/l  | <3       |          |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3       | DWS      | 600                  | 0                   | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           |              | <3            | <3            | NA            |
| 1,2-Dibromo-3-chloropropane             | TM15/PM10   | ug/l  | <2       | DWS      | 0.2                  | 0                   | <2           | NA           | <2           |              | <3           |              | <3           | NA           | NA           | NA           | NA           |              | <2            | <2            | NA            |
| 1,2,4-Trichlorobenzene                  | TM15/PM10   | ug/l  | <3       | DWS      | 35                   | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           |              | <3            | <3            | NA            |
| Hexachlorobutadiene                     | TM15/PM10   | ug/l  | <3       | UKTAG    | 0.05                 | 0                   | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           |              | <3            | <3            | NA            |
| Naphthalene                             | TM15/PM10   | ug/l  | <2       | DWS      | 0.075                | 0                   | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           |              | <2            | <2            | NA            |
| 1,2,3-Trichlorobenzene                  | TM15/PM10   | ug/l  | <3       | WFD      | 0.01                 | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           |              | <3            | <3            | NA            |
| Surrogate Recovery Toluene D8           | TM15/PM10   | %     | <0       |          |                      |                     | 107          | NA           | 99           | 103          | 99           | 100          | 98           | NA           | NA           | NA           | NA           |              | 100           | 112           | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10   | %     | <0       |          |                      |                     | 107          | NA           | 101          |              |              | 109          |              | NA           | NA           | NA           | NA           |              | 100           | 109           | NA            |
|                                         |             |       |          |          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| SVOC TICs                               | TM16/PM30   | None  |          |          |                      | 0                   | ND           | NA           | ND           |              |              | ND           |              | NA           | NA           | NA           | NA           |              | ND            | ND            | NA            |
| PFAAS                                   |             |       |          |          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFBA <sup>#</sup>                       | TM135/PM122 | ug/l  | <0.001   |          | 10                   | 0                   | 0.102        | NA           | 0.013        | 0.215        | 0.036        | 0.029        | 0.184        | NA           | NA           | NA           | NA           | NA           | 0.012         | 0.013         | NA            |
| PFPeA <sup>#</sup>                      | TM135/PM122 | ug/l  | <0.001   |          | 0.1                  | 0                   | 0.055        | NA           | 0.009        | 0.069        | 0.022        | 0.031        | 0.051        | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.006         | NA            |
| PFHxA <sup>#</sup>                      | TM135/PM122 | ug/l  | <0.001   |          | 6                    | 0                   | 0.041        | NA           | 0.007        | 0.051        | 0.022        | 0.027        | 0.056        | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.007         | NA            |
| PFHpA <sup>#</sup>                      | TM135/PM122 | ug/l  | <0.001   |          | 0.1                  | 0                   | 0.018        | NA           | 0.003        | 0.026        | 0.01         | <0.010       | 0.017        | NA           | NA           | NA           | NA           | NA           | <0.005        | 0.002         | NA            |
| PFOA <sup>#</sup>                       | TM135/PM122 | ug/l  | <0.00065 |          | 0.1                  | 0                   | 0.0878       | NA           | 0.0125       | 0.0958       | 0.0199       | 0.0129       | 0.0589       | NA           | NA           | NA           | NA           | NA           | 0.0061        | 0.006         | NA            |
| PFNA <sup>#</sup>                       | TM135/PM122 | ug/l  | <0.001   |          | 0.06                 | 0                   | <0.010       | NA           | <0.001       | <0.010       | <0.010       | <0.010       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDA <sup>#</sup>                       | TM135/PM122 | ug/l  | <0.001   |          | 0.1                  | 0                   | <0.001       | NA           | <0.001       | <0.001       | <0.010       | <0.010       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFUnA <sup>#</sup>                      | TM135/PM122 | ug/l  | <0.001   |          | 0.1                  | 0                   | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDoA                                   | TM135/PM122 | ug/l  | <0.001   |          | 0.1                  | 0                   | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFTrDA                                  | TM135/PM122 | ug/l  | <0.006   |          | 0.1                  | 0                   | <0.006       | NA           | <0.006       | <0.006       | <0.006       | <0.006       | <0.006       | NA           | NA           | NA           | NA           | NA           | <0.006        | <0.006        | NA            |
| PFTeDA                                  | TM135/PM122 | ug/l  | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFHxDA                                  | TM135/PM122 | ug/l  | <0.01    |          |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | NA            |
| PFODA                                   | TM135/PM122 | ug/l  | <0.025   |          |                      |                     | <0.025       | NA           | <0.025       | <0.025       | <0.025       | <0.025       | <0.025       | NA           | NA           | NA           | NA           | NA           | <0.025        | <0.025        | NA            |
| PFBS <sup>#</sup>                       | TM135/PM122 | ug/l  | <0.001   |          | 6                    | 0                   | 0.021        | NA           | 0.006        | 0.022        | 0.02         | 0.114        | 0.021        | NA           | NA           | NA           | NA           | NA           | 0.007         | 0.006         | NA            |
| PFPeS <sup>#</sup>                      | TM135/PM122 | ug/l  | <0.001   |          |                      |                     | <0.010       | NA           | 0.001        | 0.014        | <0.010       | <0.010       | <0.010       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |

| Risks to Groundwater       |                |          |          |          | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|----------------------------|----------------|----------|----------|----------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                            |                |          |          |          | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                            |                |          |          |          | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                            |                |          |          |          | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                            |                |          |          |          | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                       | Method         | Units    | LOD      | C Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFHxS #                    | TM135/PM122    | ug/l     | <0.001   |          | 0.1                  | 1                   | 0.047        | NA           | 0.007        | 0.103        | <0.010       | <0.010       | 0.049        | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.005         | NA            |
| PFHpS #                    | TM135/PM122    | ug/l     | <0.001   |          | 0.1                  | 0                   | 0.001        | NA           | <0.001       | 0.019        | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFOS #                     | TM135/PM122    | ug/l     | <0.00066 |          | 0.1                  | 1                   | 0.0495       | NA           | 0.0159       | 3.4078       | 0.0512       | 0.0243       | 0.0324       | NA           | NA           | NA           | NA           | NA           | 0.0067        | 0.0066        | NA            |
| PFNS                       | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | 0.001         | <0.001        | NA            |
| PFDS                       | TM135/PM122    | ug/l     | <0.001   |          | 0.1                  | 0                   | <0.001       | NA           | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFUnDS                     | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.010       | <0.001       | <0.001       | 0.001        | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDoDS                     | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFTrDS                     | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| HFPO-DA (Gen X)            | TM135/PM122    | ug/l     | <0.001   |          | 0.06                 | 0                   | <0.001       | NA           | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| HFPO-TA                    | TM135/PM122    | ug/l     | <0.02    |          |                      |                     | <0.02        | NA           | <0.02        | <0.20        | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| DONA #                     | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFMOPrA                    | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.010       | NA           | 0.016        | <0.020       | <0.020       | <0.010       | <0.020       | NA           | NA           | NA           | NA           | NA           | 0.133         | 0.133         | NA            |
| NFDHA                      | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFMOBA                     | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.005       | <0.010       | <0.010       | <0.001       | <0.010       | NA           | NA           | NA           | NA           | NA           | 0.015         | 0.015         | NA            |
| PFECHS                     | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | 0.023        | NA           | 0.002        | 0.319        | <0.010       | <0.010       | 0.06         | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 3:3 FTCA                   | TM135/PM122    | ug/l     | <0.02    |          |                      |                     | <0.02        | NA           | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| 5:3 FTCA                   | TM135/PM122    | ug/l     | <0.01    |          |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | NA            |
| 7:3 FTCA                   | TM135/PM122    | ug/l     | <0.02    |          |                      |                     | <0.02        | NA           | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| PFEESA                     | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 9CI-PF3ONS #               | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 11CI-PF3OUdS               | TM135/PM122    | ug/l     | <0.001   |          |                      |                     | <0.001       | NA           | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 4:2 FTS                    | TM135/PM122    | ug/l     | <0.005   |          |                      |                     | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 6:2 FTS                    | TM135/PM122    | ug/l     | <0.005   |          | 0.1                  | 0                   | <0.005       | NA           | <0.005       | <0.050       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 8:2 FTS                    | TM135/PM122    | ug/l     | <0.005   |          | 0.2                  | 0                   | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| FBSA                       | TM135/PM122    | ug/l     | <0.02    |          |                      |                     | <0.02        | NA           | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| FHxSA                      | TM135/PM122    | ug/l     | <0.02    |          |                      |                     | <0.02        | NA           | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| FOSA                       | TM135/PM122    | ug/l     | <0.005   |          | 0.1                  | 0                   | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-MeFOSA                   | TM135/PM122    | ug/l     | <0.005   |          |                      |                     | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-EtFOSA                   | TM135/PM122    | ug/l     | <0.005   |          |                      |                     | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| Me-FOSE                    | TM135/PM122    | ug/l     | <0.02    |          |                      |                     | <0.02        | NA           | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| Et-FOSE                    | TM135/PM122    | ug/l     | <0.02    |          |                      |                     | <0.02        | NA           | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| N-MeFOSAA                  | TM135/PM122    | ug/l     | <0.005   |          | 0.07                 | 0                   | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-EtFOSAA                  | TM135/PM122    | ug/l     | <0.005   |          | 0.07                 | 0                   | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.050       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 8:2diPAP                   | TM135/PM122    | ug/l     | <0.005   |          |                      |                     | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| FOUEA                      | TM135/PM122    | ug/l     | <0.005   |          |                      |                     | <0.005       | NA           | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| Sum of PFOS and PFOA       |                | ug/l     |          |          | 0.5                  | 2                   | 0.4453       | 0            | 0.0924       | 4.3416       | 0.1811       | 0.2382       | 0.5303       | 0            | 0            | 0            | 0            | 0            | 0.1988        | 0.1996        | 0             |
|                            |                |          |          |          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dioxane*               | Subcontracted/ | ug/l     | <0.07    |          | 50                   | 0                   | <21.00       | NA           | <28.00       | NA           | NA           | <28.00       | NA           | NA           | NA           | NA           | NA           | NA           | <28.00        | <21.00        | NA            |
| BOD (Settled) #            | TM58/PM0       | mg/l     | <1       |          |                      |                     | 14           | 14           | 8            | NA           | NA           | <3           | NA           | 21           | <3           | 26           | 25           | NA           | <2            | <2            | <2            |
| COD (Settled) #            | TM57/PM0       | mg/l     | <7       |          |                      |                     | 104          | 75           | 8            | NA           | NA           | 49           | NA           | 84           | 62           | 36           | 39           | NA           | 12            | 14            | 13            |
| Dissolved Organic Carbon # | TM60/PM0       | mg/l     | <2       |          |                      |                     | 33           | 18           | <2           | NA           | NA           | 8            | NA           | 24           | 26           | 5            | 18           | NA           | 3             | 2             | 2             |
| Free Ammonia as NH3        | TM176/PM0      | mg/l     | <0.007   |          |                      |                     | 0.032        | 0.108        | <0.007       | NA           | NA           | <0.007       | NA           | 0.015        | 0.021        | 0.079        | 0.022        | NA           | <0.007        | <0.007        | <0.007        |
| pH #                       | TM73/PM0       | pH units | <0.01    |          |                      |                     | 7.7          | 7.86         | 8.02         | NA           | NA           | 7.93         | NA           | 7.67         | 7.65         | 7.33         | 7.5          | NA           | 8.17          | 8.3           | 8.21          |



| Risks to Groundwater                    |                         |       |        |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|-----------------------------------------|-------------------------|-------|--------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                         |                         |       |        |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                         |                         |       |        |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                         |                         |       |        |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                         |                         |       |        |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                    | Method                  | Units | LOD    | GAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| Metals                                  |                         |       |        |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   | UKTAG      | 5                    | 3                   | 1.3           | 1.2           | 1.1           | 4.7          | 14.5         | 2.6          | 7.9          | 3.8          | 4            | 2.9          | 2            | 38.8         |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   | RPV        | 4                    | 0                   | <0.5          | <0.5          | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    | WFD        | 750                  | 3                   | 63            | 71            | 49            | 546          | 284          | 122          | 2207         | 168          | 1202         | 439          | 1172         | 90           |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   | WFD Min TV | 3.75                 | 0                   | <0.03         | <0.03         | <0.03         | <0.03        | <0.03        | 0.07         | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   | WFD        | 37.5                 | 0                   | 1.7           | 0.2           | 1.2           | 0.7          | 0.6          | 0.5          | 0.9          | 6.5          | 0.8          | 8.9          | 2.2          | 0.9          |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     | WFD        | 1500                 | 0                   | 3             | 2             | 2             | 2            | <1           | 12           | <1           | 3            | <1           | 3            | <1           | <1           |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    | DWD        | 200                  | 6                   | 24.4          | 23.9          | 20.9          | 2093         | 4943.3       | 14.3         | 494.6        | 188.2        | 2055.8       | 34.7         | 2310.7       | 29807.3      |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | UKTAG      | 5                    | 0                   | <0.4          | <0.4          | <0.4          | <0.4         | <0.4         | 1.8          | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     | UKTAG      | 0.5                  | 0                   | <0.5          | <0.5          | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     | WFD        | 15                   | 0                   | 1.9           | 1.8           | 1.7           | 3.8          | 4.3          | 5.9          | 2.8          | 2.9          | 2.4          | 5.4          | 1.2          | 1.7          |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     | WFD        | 7.5                  | 0                   | <1.2          | <1.2          | <1.2          | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | 1.2          |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   |            |                      | 0                   | 1.9           | 1.9           | 2.1           | 3.9          | 1.5          | 8.3          | 3            | 9.8          | 2.3          | 6.4          | 7.5          | 2.6          |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     | WFD        | 5000                 | 0                   | 7             | 6.5           | 6.7           | 6            | 2.9          | 20.3         | 3.6          | 3.7          | 1.9          | 5.5          | 2.7          | 8.7          |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |            |                      | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| PAH MS                                  |                         |       |        |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Naphthalene #                           | TM4/PM30                | ug/l  | <0.1   | WFD        | 0.075                | 1                   | <0.1          | <0.1          | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | 17.7         | <0.1         | <0.1         | <0.1         |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.009         | <0.005        | <0.005        | 0.009        | <0.005       | 0.03         | 0.024        | 0.007        | <0.005       | 0.099        | <0.005       | <0.005       |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | <0.005        | <0.005        | <0.005        | 0.196        | 0.007        | 0.062        | 1.897        | 0.008        | 4.325        | 3.548        | 0.006        | <0.005       |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | <0.005        | <0.005        | <0.005        | 0.015        | 0.005        | 0.015        | 0.07         | <0.005       | 2.068        | 0.699        | 0.005        | <0.005       |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.021         | 0.005         | 0.006         | 0.009        | 0.008        | 0.035        | 0.506        | 0.005        | 1.465        | 0.067        | 0.005        | <0.005       |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 4                   | 0.016         | <0.005        | <0.005        | 0.019        | 0.007        | 0.062        | 0.134        | 0.026        | 0.358        | 0.051        | <0.005       | <0.005       |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | WFD        | 0.075                | 5                   | 0.109         | 0.012         | 0.013         | 0.041        | 0.012        | 0.17         | 0.281        | 0.014        | 0.232        | 0.42         | <0.005       | <0.005       |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.108         | 0.013         | 0.012         | 0.033        | 0.012        | 0.192        | 0.175        | 0.014        | 0.141        | 0.236        | <0.005       | <0.005       |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.068         | 0.006         | 0.005         | 0.005        | 0.006        | 0.105        | 0.012        | 0.007        | 0.005        | 0.007        | <0.005       | <0.005       |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.088         | 0.005         | 0.007         | 0.006        | 0.006        | 0.159        | 0.015        | 0.008        | 0.005        | 0.005        | <0.005       | <0.005       |
| Benzo(b)fluoranthene #                  | TM4/PM30                | ug/l  | <0.008 |            |                      | 0                   | 0.214         | 0.01          | 0.013         | 0.011        | 0.011        | 0.484        | 0.01         | 0.017        | <0.008       | <0.008       | <0.008       | <0.008       |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.005                | 5                   | 0.11          | 0.005         | 0.006         | 0.006        | 0.005        | 0.217        | 0.005        | 0.009        | <0.005       | <0.005       | <0.005       | <0.005       |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 2                   | 0.092         | <0.005        | 0.005         | 0.005        | <0.005       | 0.208        | <0.005       | 0.007        | <0.005       | <0.005       | <0.005       | <0.005       |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.018         | <0.005        | <0.005        | <0.005       | <0.005       | 0.038        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | UKTAG      | 0.05                 | 2                   | 0.092         | 0.005         | 0.006         | 0.005        | <0.005       | 0.229        | <0.005       | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 | RPV        | 0.1                  | 6                   | 0.945         | <0.173        | <0.173        | 0.36         | <0.173       | 2.006        | 3.129        | <0.173       | 26.299       | 5.132        | <0.173       | <0.173       |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | UKTAG      | 0.05                 | 2                   | 0.154         | <0.008        | 0.009         | <0.008       | <0.008       | 0.348        | <0.008       | 0.012        | <0.008       | <0.008       | <0.008       | <0.008       |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | UKTAG      | 0.05                 | 2                   | 0.06          | <0.008        | <0.008        | <0.008       | <0.008       | 0.136        | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |            |                      | 0                   | 63            | 88            | 80            | 85           | 76           | 82           | 78           | 79           | 82           | 86           | 72           | 87           |
| VOC TICs                                | TM15/PM10               | None  |        |            |                      | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   | WFD        | 15                   | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | UKTAG      | 0.5                  | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | UKTAG      | 350                  | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     | WHO        | 300                  | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | WHO        | 500                  | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | WHO        | 500                  | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |            |                      | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |            |                      | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| TPH CWG                                 |                         |       |        |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Aliphatics                              |                         |       |        |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    | WHO        | 15000                | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    | WHO        | 15000                | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    | WHO        | 300                  | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     | WHO        | 300                  | 0                   | <5            | <5            | <5            | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    | WHO        | 300                  | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |            |                      | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |            |                      | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |            |                      | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Aromatics                               |                         |       |        |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | DWS        | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |

| Risks to Groundwater                               |                         |       |       |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|----------------------------------------------------|-------------------------|-------|-------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                    |                         |       |       |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                                    |                         |       |       |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                                    |                         |       |       |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                                    |                         |       |       |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                               | Method                  | Units | LOD   | GAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| >EC7-EC8 <sup>#</sup>                              | TM36/PM12               | ug/l  | <10   | DWS        | 700                  | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC8-EC10 <sup>#</sup>                             | TM36/PM12               | ug/l  | <10   | DWS        | 500                  | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC10-EC12 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <5    | WHO        | 90                   | 0                   | <5            | <5            | <5            | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |
| >EC12-EC16 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   | WHO        | 90                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC16-EC21 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   | WHO        | 90                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC21-EC35 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   | WHO        | 90                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total aromatics C5-35 <sup>#</sup>                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |            |                      | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total aliphatics and aromatics(C5-35) <sup>#</sup> | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |            |                      | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total Phenols HPLC                                 | TM26/PM0                | mg/l  | <0.15 | WFD        | 4.08                 | 0                   | <0.15         | <0.15         | <0.15         | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        |
| Other Inorganics                                   |                         |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Sulphate as SO4 <sup>#</sup>                       | TM89/PM0                | mg/l  | <0.5  | WFD        | 188                  | 4                   | 42.2          | 37.6          | 36.9          | 192.2        | 403.5        | 74           | 18.8         | 113.6        | 247.2        | 204.7        | <0.5         | 24.9         |
| Chloride <sup>#</sup>                              | TM38/PM0                | mg/l  | <0.3  | WFD        | 188                  | 1                   | 47.2          | 48.4          | 48.2          | 21.8         | 10           | 12.1         | 217.5        | 9.6          | 24.5         | 40.9         | 34.1         | 44.3         |
| Nitrate as NO3 <sup>#</sup>                        | TM38/PM0                | mg/l  | <0.2  | WFD        | 37.5                 | 0                   | 24.8          | 28.7          | 28.6          | <0.2         | <0.2         | 3.5          | <0.2         | <0.2         | <0.2         | 2.7          | <0.2         | <0.2         |
| Nitrite as NO2 <sup>#</sup>                        | TM38/PM0                | mg/l  | <0.02 | DWD        | 500                  | 0                   | <0.02         | 0.02          | 0.03          | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | 0.05         | <0.02        |
| Ortho Phosphate as PO4 <sup>#</sup>                | TM38/PM0                | mg/l  | <0.06 |            |                      | 0                   | 1.03          | 0.84          | 0.76          | <0.06        | <0.06        | 0.18         | 0.95         | 0.1          | <0.06        | 0.8          | 0.18         | <0.06        |
| Total Cyanide <sup>#</sup>                         | TM89/PM0                | mg/l  | <0.01 | DWD        | 50                   | 0                   | <0.01         | <0.01         | <0.01         | 0.03         | 0.03         | <0.01        | 0.02         | <0.01        | <0.01        | 0.02         | <0.01        | <0.01        |
| Ammoniacal Nitrogen as N <sup>#</sup>              | TM38/PM0                | mg/l  | <0.03 | DWS        | 0.29                 | 8                   | 0.03          | 0.03          | 0.03          | 3.75         | 2.3          | 0.04         | 13.89        | 0.68         | 5.08         | 1.26         | 12.15        | 4.93         |
| Hexavalent Chromium                                | TM38/PM0                | ug/l  | <6    | UKTAG      | 5                    | 0                   | <6            | <6            | <6            | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           |
| Total Dissolved Chromium III                       | TM0/PM0                 | ug/l  | <6    |            |                      | 0                   | <6            | <6            | <6            | <6           | <6           | <6           | <6           | 7            | <6           | 9            | <6           | <6           |
| Total Alkalinity as CaCO3 <sup>#</sup>             | TM75/PM0                | mg/l  | <1    |            |                      | 0                   | 224           | 242           | 256           | 820          | 518          | 238          | 744          | 216          | 612          | 422          | 862          | 800          |
| BTEX                                               |                         |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| MTBE <sup>#</sup>                                  | TM36/PM12               | ug/l  | <5    | WFD        | 15                   | 0                   | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | <0.1         |
| Benzene <sup>#</sup>                               | TM36/PM12               | ug/l  | <5    | UKTAG      | 0.5                  | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| Toluene <sup>#</sup>                               | TM36/PM12               | ug/l  | <5    | UKTAG      | 350                  | 0                   | <5            | <5            | NA            | <5           | <5           | <5           | <5           | <5           | NA           | <5           | NA           | <5           |
| Ethylbenzene <sup>#</sup>                          | TM36/PM12               | ug/l  | <5    | RPV        | 300                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| m/p-Xylene <sup>#</sup>                            | TM36/PM12               | ug/l  | <5    | RPV        | 500                  | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| o-Xylene <sup>#</sup>                              | TM36/PM12               | ug/l  | <5    | RPV        | 500                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Phenols                                            |                         |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 2-Chlorophenol <sup>#</sup>                        | TM16/PM30               | ug/l  | <0.5  | UKTAG      | 150                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 2-Methylphenol <sup>#</sup>                        | TM16/PM30               | ug/l  | <0.5  |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| 2-Nitrophenol                                      | TM16/PM30               | ug/l  | <0.5  |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| 2,4-Dichlorophenol <sup>#</sup>                    | TM16/PM30               | ug/l  | <1    |            | 100                  | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| 2,4-Dimethylphenol                                 | TM16/PM30               | ug/l  | <0.5  |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 2,4,5-Trichlorophenol <sup>#</sup>                 | TM16/PM30               | ug/l  | <1    |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| 2,4,6-Trichlorophenol                              | TM16/PM30               | ug/l  | <0.5  | RPV        | 200                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 4-Chloro-3-methylphenol <sup>#</sup>               | TM16/PM30               | ug/l  | <1    | UKTAG      | 350                  | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| 4-Methylphenol                                     | TM16/PM30               | ug/l  | <10   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | 2            |
| 4-Nitrophenol                                      | TM16/PM30               | ug/l  | <1    |            |                      | 0                   | <10           | <10           | NA            | <10          | <10          | <10          | <10          | <10          | NA           | <10          | NA           | <10          |
| Pentachlorophenol                                  | TM16/PM30               | ug/l  | <1    | UKTAG      | 0.05                 | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Phenol                                             | TM16/PM30               | ug/l  |       | WFD        | 4.08                 | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| PAHs                                               |                         |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 2-Chloronaphthalene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 2-Methylnaphthalene <sup>#</sup>                   | TM16/PM30               | ug/l  |       |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Phthalates                                         |                         |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Bis(2-ethylhexyl) phthalate                        | TM16/PM30               | ug/l  | <1    |            |                      | 0                   | <5            | <5            | NA            | <5           | <5           | <5           | <5           | <5           | NA           | <5           | NA           | <5           |
| Butylbenzyl phthalate                              | TM16/PM30               | ug/l  | <1.5  |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Di-n-butyl phthalate <sup>#</sup>                  | TM16/PM30               | ug/l  | <1    |            |                      | 0                   | <1.5          | <1.5          | NA            | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | NA           | <1.5         | NA           | <1.5         |
| Di-n-Octyl phthalate                               | TM16/PM30               | ug/l  | <1    |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Diethyl phthalate <sup>#</sup>                     | TM16/PM30               | ug/l  | <1    |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Dimethyl phthalate                                 | TM16/PM30               | ug/l  |       |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Other SVOCs                                        |                         |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,2-Dichlorobenzene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    | RPV        | 600                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 1,2,4-Trichlorobenzene <sup>#</sup>                | TM16/PM30               | ug/l  | <1    | UKTAG      | 35                   | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 1,3-Dichlorobenzene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |

| Risks to Groundwater                      |           |       |      |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|-------------------------------------------|-----------|-------|------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                           |           |       |      |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                           |           |       |      |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                           |           |       |      |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                           |           |       |      |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                      | Method    | Units | LOD  | GAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,4-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | RPV        | 800                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 2-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 2,4-Dinitrotoluene <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| 2,6-Dinitrotoluene                        | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 3-Nitroaniline                            | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 4-Bromophenylphenylether <sup>#</sup>     | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 4-Chloroaniline                           | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 4-Chlorophenylphenylether <sup>#</sup>    | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 4-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| Azobenzene <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| Bis(2-chloroethoxy)methane <sup>#</sup>   | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| Bis(2-chloroethyl)ether <sup>#</sup>      | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Carbazole <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| Dibenzofuran <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| Hexachlorobenzene <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | UKTAG      | 0.05                 | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Hexachlorobutadiene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | UKTAG      | 0.05                 | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Hexachlorocyclopentadiene                 | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Hexachloroethane <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Isophorone <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| N-nitrosodi-n-propylamine <sup>#</sup>    | TM16/PM30 | ug/l  | <1   |            |                      | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| Nitrobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <0   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Surrogate Recovery 2-Fluorobiphenyl       | TM16/PM30 | %     | <0   |            |                      | 0                   | 108           | 107           | NA            | 103          | 104          | 80           | 108          | 111          | NA           | 84           | NA           | 98           |
| Surrogate Recovery p-Terphenyl-d14        | TM16/PM30 | %     |      |            |                      | 0                   | 112           | 112           | NA            | 112          | 109          | 85           | 115          | 119          | NA           | 84           | NA           | 101          |
| VOC MS                                    |           |       |      |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Dichlorodifluoromethane                   | TM15/PM10 | ug/l  | <2   |            |                      | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Methyl Tertiary Butyl Ether <sup>#</sup>  | TM15/PM10 | ug/l  | <0.1 |            |                      | 0                   | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | <0.1         |
| Chloromethane <sup>#</sup>                | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Vinyl Chloride <sup>#</sup>               | TM15/PM10 | ug/l  | <0.1 | UKTAG      | 0.25                 | 0                   | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | <0.1         |
| Bromomethane                              | TM15/PM10 | ug/l  | <1   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Chloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Trichlorofluoromethane <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup> | TM15/PM10 | ug/l  | <3   | RPV        | 7                    | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Dichloromethane (DCM) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | RPV        | 5                    | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| trans-1-2-Dichloroethene <sup>#</sup>     | TM15/PM10 | ug/l  | <3   | WFD        | 50                   | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,1-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <3   | WFD        | 7                    | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| cis-1-2-Dichloroethene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   | WFD        | 50                   | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 2,2-Dichloropropane                       | TM15/PM10 | ug/l  | <1   |            |                      | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Bromochloromethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   |            |                      | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Chloroform <sup>#</sup>                   | TM15/PM10 | ug/l  | <2   | WFD        | 1.29                 | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| 1,1,1-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   | WFD        | 200                  | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| 1,1-Dichloropropene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Carbon tetrachloride <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | UKTAG      | 1.5                  | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| 1,2-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   | WFD        | 3                    | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Benzene <sup>#</sup>                      | TM15/PM10 | ug/l  | <0.5 | UKTAG      | 0.5                  | 0                   | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| Trichloroethene (TCE) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | UKTAG      | 5                    | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,2-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | RPV        | 5                    | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Dibromomethane <sup>#</sup>               | TM15/PM10 | ug/l  | <3   | RPV        | 400                  | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Bromodichloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | WFD        | 60                   | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| cis-1-3-Dichloropropene                   | TM15/PM10 | ug/l  | <2   | WFD        | 20                   | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Toluene <sup>#</sup>                      | TM15/PM10 | ug/l  | <5   | UKTAG      | 350                  | 0                   | <5            | <5            | NA            | <5           | <5           | <5           | <5           | <5           | NA           | <5           | NA           | <5           |
| trans-1-3-Dichloropropene                 | TM15/PM10 | ug/l  | <2   |            |                      | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| 1,1,2-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   | DWS        | 5                    | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Tetrachloroethene (PCE) <sup>#</sup>      | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,3-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | DWS        | 20                   | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Dibromochloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | DWS        | 100                  | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |

| Risks to Groundwater                    |             |       |       |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|-----------------------------------------|-------------|-------|-------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                         |             |       |       |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                         |             |       |       |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                         |             |       |       |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                         |             |       |       |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                    | Method      | Units | LOD   | GAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,2-Dibromoethane <sup>#</sup>          | TM15/PM10   | ug/l  | <2    | DWS        | 0.4                  | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Chlorobenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <2    | RPV        | 100                  | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| 1,1,1,2-Tetrachloroethane <sup>#</sup>  | TM15/PM10   | ug/l  | <2    |            |                      | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Ethylbenzene <sup>#</sup>               | TM15/PM10   | ug/l  | <1    | RPV        | 300                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| m/p-Xylene <sup>#</sup>                 | TM15/PM10   | ug/l  | <2    | DWS        | 500                  | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| o-Xylene <sup>#</sup>                   | TM15/PM10   | ug/l  | <1    | DWS        | 500                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Styrene                                 | TM15/PM10   | ug/l  | <2    | DWS        | 20                   | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Bromoform <sup>#</sup>                  | TM15/PM10   | ug/l  | <2    |            |                      | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| Isopropylbenzene <sup>#</sup>           | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,1,2,2-Tetrachloroethane               | TM15/PM10   | ug/l  | <4    |            |                      | 0                   | <4            | <4            | NA            | <4           | <4           | <4           | <4           | <4           | NA           | <4           | NA           | <4           |
| Bromobenzene <sup>#</sup>               | TM15/PM10   | ug/l  | <2    |            |                      | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| 1,2,3-Trichloropropane <sup>#</sup>     | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Propylbenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 2-Chlorotoluene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,3,5-Trimethylbenzene <sup>#</sup>     | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 4-Chlorotoluene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| tert-Butylbenzene <sup>#</sup>          | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,2,4-Trimethylbenzene <sup>#</sup>     | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| sec-Butylbenzene <sup>#</sup>           | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 4-Isopropyltoluene <sup>#</sup>         | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,3-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,4-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3    | DWS        | 80                   | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| n-Butylbenzene <sup>#</sup>             | TM15/PM10   | ug/l  | <3    |            |                      | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,2-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3    | DWS        | 600                  | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| 1,2-Dibromo-3-chloropropane             | TM15/PM10   | ug/l  | <2    | DWS        | 0.2                  | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| 1,2,4-Trichlorobenzene                  | TM15/PM10   | ug/l  | <3    | DWS        | 35                   | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Hexachlorobutadiene                     | TM15/PM10   | ug/l  | <3    | UKTAG      | 0.05                 | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Naphthalene                             | TM15/PM10   | ug/l  | <2    | DWS        | 0.075                | 0                   | <2            | <2            | NA            | <2           | <2           | <2           | <2           | <2           | NA           | <2           | NA           | <2           |
| 1,2,3-Trichlorobenzene                  | TM15/PM10   | ug/l  | <3    | WFD        | 0.01                 | 0                   | <3            | <3            | NA            | <3           | <3           | <3           | <3           | <3           | NA           | <3           | NA           | <3           |
| Surrogate Recovery Toluene D8           | TM15/PM10   | %     | <0    |            |                      | 0                   | 97            | 91            | NA            | 94           | 92           | 98           | 95           | 95           | NA           | 76           | NA           | 83           |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10   | %     | <0    |            |                      | 0                   | 102           | 98            | NA            | 98           | 96           | 101          | 100          | 101          | NA           | 84           | NA           | 94           |
|                                         |             |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| SVOC TICs                               | TM16/PM30   | None  |       |            |                      | 0                   | ND            | ND            | NA            | ND           | ND           | ND           | ND           | ND           | NA           | ND           | NA           | ND           |
| Cyclic octaatomic sulfur                | TM16/PM30   | ug/l  | <100  |            |                      | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| PFAAS                                   |             |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| PFBA                                    | TM135/PM121 | ug/l  | <0.05 |            | 10                   | 0                   | <0.25         | <0.25         | NA            | <0.25        | <0.25        | <0.25        | 0.31         | 0.52         | NA           | <0.25        | NA           | 0.28         |
| PFPeA                                   | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 1                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | 0.06         | NA           | 0.37         |
| PFHxA                                   | TM135/PM121 | ug/l  | <0.05 |            | 6                    | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | 0.06         | <0.05        | NA           | <0.05        | NA           | 0.15         |
| PFHpA                                   | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFOA                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | 0.1          | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFNA                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.06                 | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFDA                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFUnA                                   | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFDoA                                   | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFTTrDA                                 | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFTeDA                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFHxDA                                  | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | <0.1         |
| PFODA                                   | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | 0.1          |
| PFBS                                    | TM135/PM121 | ug/l  | <0.05 |            | 6                    | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | 0.06         | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFPeS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFHxS                                   | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 1                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | 0.12         | <0.05        | NA           | <0.05        | NA           | <0.05        |



| Risks to Groundwater       |                |          |        |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|----------------------------|----------------|----------|--------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                            |                |          |        |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                            |                |          |        |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                            |                |          |        |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                            |                |          |        |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                       | Method         | Units    | LOD    | GAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| PFHpS                      | TM135/PM121    | ug/l     | <0.05  |            | 0.1                  | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFOS                       | TM135/PM121    | ug/l     | <0.05  |            | 0.1                  | 1                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | 3.23         | <0.05        | NA           | <0.05        | NA           | 0.1          |
| PFNS                       | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFDS                       | TM135/PM121    | ug/l     | <0.05  |            | 0.1                  | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFUnDS                     | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFDoDS                     | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFTrDS                     | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| HFPO-DA (Gen X)            | TM135/PM121    | ug/l     | <0.05  |            | 0.06                 | 0                   | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| HFPO-TA                    | TM135/PM121    | ug/l     | <1     |            |                      |                     | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| DONA                       | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFMOPrA                    | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| NFDHA                      | TM135/PM121    | ug/l     | <0.1   |            |                      |                     | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | <0.1         |
| PFMOBA                     | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| PFECHS                     | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | 0.34         | <0.05        | NA           | <0.05        | NA           | <0.05        |
| 3:3 FTCA                   | TM135/PM121    | ug/l     | <0.1   |            |                      |                     | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | <0.1         |
| 5:3 FTCA                   | TM135/PM121    | ug/l     | <0.5   |            |                      |                     | <0.5          | <0.5          | NA            | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | <0.5         | NA           | <0.5         |
| 7:3 FTCA                   | TM135/PM121    | ug/l     | <0.1   |            |                      |                     | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | 0.5          |
| PFEESA                     | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| 9Cl-PF3ONS                 | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| 11Cl-PF3OUdS               | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| 4:2 FTS                    | TM135/PM121    | ug/l     | <0.2   |            |                      |                     | <0.2          | <0.2          | NA            | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | NA           | <0.2         | NA           | <0.2         |
| 6:2 FTS                    | TM135/PM121    | ug/l     | <0.2   |            | 0.1                  | 0                   | <0.2          | <0.2          | NA            | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | NA           | <0.2         | NA           | <0.2         |
| 8:2 FTS                    | TM135/PM121    | ug/l     | <0.2   |            | 0.2                  | 0                   | <0.2          | <0.2          | NA            | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | NA           | <0.2         | NA           | <0.2         |
| FBSA                       | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| FHxSA                      | TM135/PM121    | ug/l     | <0.05  |            |                      |                     | <0.05         | <0.05         | NA            | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | NA           | <0.05        | NA           | <0.05        |
| FOSA                       | TM135/PM121    | ug/l     | <1     |            | 0.1                  | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| N-MeFOSA                   | TM135/PM121    | ug/l     | <1     |            |                      |                     | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| N-EtFOSA                   | TM135/PM121    | ug/l     | <1     |            |                      |                     | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Me-FOSE                    | TM135/PM121    | ug/l     | <0.1   |            |                      |                     | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | <0.1         |
| Et-FOSE                    | TM135/PM121    | ug/l     | <0.1   |            |                      |                     | <0.1          | <0.1          | NA            | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | <0.1         | NA           | <0.1         |
| N-MeFOSAA                  | TM135/PM121    | ug/l     | <1     |            | 0.07                 | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| N-EtFOSAA                  | TM135/PM121    | ug/l     | <1     |            | 0.07                 | 0                   | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| 8:2diPAP                   | TM135/PM121    | ug/l     | <0.2   |            |                      |                     | 0.4           | 0.2           | NA            | <0.2         | 0.2          | <0.2         | <0.2         | <0.2         | NA           | <0.2         | NA           | <0.2         |
| FOUEA                      | TM135/PM121    | ug/l     | <1     |            |                      |                     | <1            | <1            | NA            | <1           | <1           | <1           | <1           | <1           | NA           | <1           | NA           | <1           |
| Total PFAS                 |                | ug/l     |        |            | 0.5                  | 3                   | 0.4           | 0.2           | 0             | 0            | 0.2          | 0.06         | 4.16         | 0.52         | 0            | 0.06         | 0            | 1.5          |
|                            |                |          |        |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,4-Dioxane*               | Subcontracted/ | ug/l     | <0.07  |            | 50                   | 0                   | <8.40         | <7.00         | NA            | <7.00        | <7.70        | <7.70        | <35.00       | <7.00        | NA           | <8.40        | NA           | NA           |
| BOD (Settled) #            | TM58/PM0       | mg/l     | <1     |            |                      | 0                   | 3             | 3             | <2            | <6           | 16           | <3           | 11           | <3           | 15           | <2           | 27           | 26           |
| COD (Settled) #            | TM57/PM0       | mg/l     | <7     |            |                      | 0                   | 18            | 19            | 24            | 99           | 63           | 37           | 160          | 53           | 63           | 44           | 73           | 129          |
| Dissolved Organic Carbon # | TM60/PM0       | mg/l     | <2     |            |                      | 0                   | 3             | <2            | <2            | 27           | 21           | 8            | 53           | 15           | 19           | 10           | 14           | 26           |
| Free Ammonia as NH3        | TM176/PM0      | mg/l     | <0.007 |            |                      | 0                   | <0.007        | <0.007        | <0.007        | <0.007       | <0.007       | <0.007       | 0.186        | 0.009        | 0.032        | 0.01         | 0.073        | 0.021        |
| pH #                       | TM73/PM0       | pH units | <0.01  |            |                      | 0                   | 8.22          | 8.25          | 8.22          | 7.72         | 7.66         | 7.99         | 7.98         | 7.98         | 7.77         | 7.78         | 7.77         | 7.58         |

| Risks to Surface Water                  |                         |       |        |                          | Sample ID            |                     | WS2           | WS3           |
|-----------------------------------------|-------------------------|-------|--------|--------------------------|----------------------|---------------------|---------------|---------------|
|                                         |                         |       |        |                          | Depth                |                     | None Supplied | None Supplied |
|                                         |                         |       |        |                          | Sample Type          |                     | None Supplied | None Supplied |
|                                         |                         |       |        |                          | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                         |                         |       |        |                          | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                    | Method                  | Units | LOD    | GAC Source               | GAC SW               | No. GAC Exceedances |               |               |
| Metals                                  |                         |       |        |                          |                      |                     |               |               |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   | EQS                      | 50                   | 0                   | 1.31          | 2.42          |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   |                          |                      |                     | < 0.1         | < 0.1         |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    | EQS                      | 2000                 | 0                   | 200           | 410           |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   | WFD hardness dependent   | 0.25                 | 0                   | 0.08          | < 0.02        |
| Dissolved Calcium #                     | TM30/PM14               | ug/l  | <0.2   |                          |                      | 0                   | 170           | 270           |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   | EQS bioavailable         | 6.81                 | 1                   | 3.1           | 8.4           |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     | EQS                      | 1000                 | 0                   | 7.8           | < 0.5         |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    | WFD bioavailable         | 1.2                  | 0                   | NA            | NA            |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | WFD                      | 0.07                 | 2                   | 0.7           | 0.4           |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     | WFD bioavailable         | 16.31                | 0                   | < 0.05        | < 0.05        |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     |                          |                      |                     | 26            | 3.8           |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     | EQS hardness dependent   | 60                   | 0                   | 1.5           | 0.8           |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   | EQS bioavailable         | 30.47                | 0                   | 3.3           | 3.4           |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     |                          |                      |                     | 12            | 0.8           |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |                          |                      |                     |               |               |
| PAH MS                                  |                         |       |        |                          |                      |                     |               |               |
| Naphthalene #                           | TM4/PM30                | ug/l  | <0.1   | WFD                      | 2                    | 0                   | < 0.01        | 0.47          |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |                          |                      |                     | < 0.01        | < 0.01        |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |                          |                      |                     | < 0.01        | 0.57          |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |                          |                      |                     | < 0.01        | 0.5           |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |                          |                      |                     | < 0.01        | 1.68          |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | WFD                      | 0.1                  | 1                   | < 0.01        | 0.65          |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | WFD                      | 0.0063               | 1                   | < 0.01        | 2.22          |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |                          |                      |                     | < 0.01        | 1.91          |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |                          |                      |                     | < 0.01        | 0.76          |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |                          |                      |                     | NA            | NA            |
| Benzo(bk)fluoranthene #                 | TM4/PM30                | ug/l  | <0.008 |                          |                      |                     | NA            | NA            |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | WFD                      | 0.00017              | 1                   | < 0.01        | 0.74          |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | WFD                      | 0.00017              | 1                   | < 0.01        | 0.33          |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |                          |                      | 0                   | < 0.01        | < 0.01        |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | WFD                      | 0.00017              | 1                   | < 0.01        | 0.4           |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 |                          |                      | 0                   | < 0.16        | 12.1          |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | WFD                      | 0.00017              | 1                   | < 0.01        | 0.88          |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | WFD                      | 0.00017              | 1                   | < 0.01        | 0.34          |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |                          |                      |                     | NA            | NA            |
| VOC TICs                                | TM15/PM10               | None  |        |                          |                      |                     | NA            | NA            |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   |                          |                      |                     | < 1.0         | < 1.0         |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | WFD                      | 10                   | 0                   | < 1.0         | < 1.0         |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | EQS                      | 74                   | 0                   | < 1.0         | < 1.0         |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     |                          |                      |                     | < 1.0         | < 1.0         |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | EQS                      | 30                   | 0                   | < 1.0         | < 1.0         |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | EQS                      | 30                   | 0                   | < 1.0         | < 1.0         |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |                          |                      |                     | NA            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |                          |                      |                     | NA            | NA            |
| TPH CWG                                 |                         |       |        |                          |                      |                     |               |               |
| Aliphatics                              |                         |       |        |                          |                      |                     |               |               |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    | WHO                      | 10                   | 0                   | < 1.0         | < 1.0         |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    | WHO                      | 10                   | 0                   | < 1.0         | < 1.0         |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    | WHO                      | 10                   | 0                   | < 1.0         | < 1.0         |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     | WHO                      | 10                   | 1                   | < 10          | 200           |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    | WHO                      | 10                   | 0                   | < 10          | < 10          |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |                          |                      |                     | < 10          | < 10          |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |                          |                      |                     | < 10          | < 10          |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                          |                      |                     | < 10          | 200           |
| Aromatics                               |                         |       |        |                          |                      |                     |               |               |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | WFD                      | 10                   | 0                   | < 1.0         | < 1.0         |
| >EC7-EC8 #                              | TM36/PM12               | ug/l  | <10    |                          | 10                   | 0                   | < 1.0         | < 1.0         |
| >EC8-EC10 #                             | TM36/PM12               | ug/l  | <10    |                          | 10                   | 0                   | < 1.0         | < 1.0         |
| >EC10-EC12 #                            | TM5/PM16/PM30           | ug/l  | <5     |                          | 10                   | 0                   | < 10          | < 10          |
| >EC12-EC16 #                            | TM5/PM16/PM30           | ug/l  | <10    |                          | 10                   | 0                   | < 10          | < 10          |
| >EC16-EC21 #                            | TM5/PM16/PM30           | ug/l  | <10    |                          |                      |                     | < 10          | < 10          |
| >EC21-EC35 #                            | TM5/PM16/PM30           | ug/l  | <10    |                          |                      |                     | < 10          | < 10          |
| Total aromatics C5-35 #                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                          |                      |                     | < 10          | < 10          |
| Total aliphatics and aromatics(C5-35) # | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                          |                      |                     | NA            | NA            |
| Total Phenols HPLC                      | TM26/PM0                | mg/l  | <0.15  | EQS                      | 0.0077               | 0                   | < 10          | < 10          |
| Other Inorganics                        |                         |       |        |                          |                      |                     |               |               |
| Sulphate as SO4 #                       | TM89/PM0                | mg/l  | <0.5   | EQS                      | 400                  | 0                   | 250           | 214           |
| Chloride #                              | TM38/PM0                | mg/l  | <0.3   | EQS                      | 250                  | 0                   | NA            | NA            |
| Nitrate as NO3 #                        | TM38/PM0                | mg/l  | <0.2   |                          |                      |                     | NA            | NA            |
| Nitrite as NO2 #                        | TM38/PM0                | mg/l  | <0.02  |                          |                      |                     | NA            | NA            |
| Ortho Phosphate as PO4 #                | TM38/PM0                | mg/l  | <0.06  |                          |                      |                     | NA            | NA            |
| Total Cyanide #                         | TM89/PM0                | mg/l  | <0.01  | EQS                      | 1                    | 0                   | < 10          | < 10          |
| Ammoniacal Nitrogen as N #              | TM38/PM0                | mg/l  | <0.03  | EQS alkalinity dependent | 2.5                  | 2                   | 100           | 5300          |
| Hexavalent Chromium                     | TM38/PM0                | ug/l  | <6     | EQS                      | 3.4                  | 0                   | < 5.0         | < 5.0         |
| Total Dissolved Chromium III            | TM0/PM0                 | ug/l  | <6     | EQS                      | 4.7                  | 1                   | 3.1           | 8.4           |
| Total Alkalinity as CaCO3 #             | TM75/PM0                | mg/l  | <1     |                          |                      |                     | 439           | 710           |
| BTEX                                    |                         |       |        |                          |                      |                     |               |               |
| MTBE #                                  | TM36/PM12               | ug/l  | <5     |                          |                      |                     | < 1.0         | < 1.0         |
| Benzene #                               | TM36/PM12               | ug/l  | <5     | EU S                     | 10                   | 0                   | < 1.0         | < 1.0         |
| Toluene #                               | TM36/PM12               | ug/l  | <5     | UK ES                    | 74                   | 0                   | < 1.0         | < 1.0         |
| Ethylbenzene #                          | TM36/PM12               | ug/l  | <5     | OSPAR                    | 10                   | 0                   | < 1.0         | < 1.0         |
| m/p-Xylene #                            | TM36/PM12               | ug/l  | <5     |                          | 30                   | 0                   | < 1.0         | < 1.0         |
| o-Xylene #                              | TM36/PM12               | ug/l  | <5     |                          | 30                   | 0                   | < 1.0         | < 1.0         |
| Phenols                                 |                         |       |        |                          |                      |                     |               |               |
| 2-Chlorophenol #                        | TM16/PM30               | ug/l  | <0.5   | UK ES                    | 50                   | 0                   | NA            | NA            |
| 2-Methylphenol #                        | TM16/PM30               | ug/l  | <0.5   |                          |                      |                     | NA            | NA            |
| 2-Nitrophenol                           | TM16/PM30               | ug/l  | <0.5   |                          |                      |                     | NA            | NA            |
| 2,4-Dichlorophenol #                    | TM16/PM30               | ug/l  | <1     | UK ES                    | 4                    | 0                   | NA            | NA            |
| 2,4-Dimethylphenol                      | TM16/PM30               | ug/l  | <0.5   |                          |                      |                     | NA            | NA            |
| 2,4,5-Trichlorophenol #                 | TM16/PM30               | ug/l  | <1     |                          |                      |                     | NA            | NA            |

| Risks to Surface Water                    |           |       |      |            | Sample ID            |                     | WS2           | WS3           |
|-------------------------------------------|-----------|-------|------|------------|----------------------|---------------------|---------------|---------------|
|                                           |           |       |      |            | Depth                |                     | None Supplied | None Supplied |
|                                           |           |       |      |            | Sample Type          |                     | None Supplied | None Supplied |
|                                           |           |       |      |            | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                           |           |       |      |            | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                      | Method    | Units | LOD  | GAC Source | GAC SW               | No. GAC Exceedances |               |               |
| 2,4,6-Trichlorophenol                     | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | NA            | NA            |
| 4-Chloro-3-methylphenol <sup>#</sup>      | TM16/PM30 | ug/l  | <1   | UK ES      | 40                   | 0                   | NA            | NA            |
| 4-Methylphenol                            | TM16/PM30 | ug/l  | <10  |            |                      |                     | NA            | NA            |
| 4-Nitrophenol                             | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| Pentachlorophenol                         | TM16/PM30 | ug/l  | <1   | ES S       | 0.4                  | 0                   | NA            | NA            |
| Phenol                                    | TM16/PM30 | ug/l  |      | UK ES      | 7.7                  | 0                   | < 0.05        | < 0.05        |
| PAHs                                      |           |       |      |            |                      |                     |               |               |
| 2-Chloronaphthalene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| 2-Methylnaphthalene <sup>#</sup>          | TM16/PM30 | ug/l  |      |            |                      |                     | < 0.05        | 0.23          |
| Phthalates                                |           |       |      |            |                      |                     |               |               |
| Bis(2-ethylhexyl) phthalate               | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| Butylbenzyl phthalate                     | TM16/PM30 | ug/l  | <1.5 | UK ES      | 7.5                  | 0                   | NA            | NA            |
| Di-n-butyl phthalate <sup>#</sup>         | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| Di-n-Octyl phthalate                      | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| Diethyl phthalate <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | UK ES      | 200                  | 0                   | NA            | NA            |
| Dimethyl phthalate                        | TM16/PM30 | ug/l  |      | UK ES      | 800                  | 0                   | NA            | NA            |
| Other SVOCs                               |           |       |      |            |                      |                     |               |               |
| 1,2,4-Trichlorobenzene <sup>#</sup>       | TM16/PM30 | ug/l  | <1   |            |                      |                     | < 0.05        | < 0.05        |
| 1,2-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |            |                      |                     | < 0.05        | < 0.05        |
| 1,3-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |            |                      |                     | < 0.05        | < 0.05        |
| 1,4-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |            |                      |                     | < 0.05        | < 0.05        |
| 2,4-Dinitrotoluene <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |            |                      |                     | < 0.05        | < 0.05        |
| 2,6-Dinitrotoluene                        | TM16/PM30 | ug/l  | <1   |            |                      |                     | < 0.05        | < 0.05        |
| 2-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | NA            | NA            |
| 3-Nitroaniline                            | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| 4-Bromophenylphenylether <sup>#</sup>     | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| 4-Chloroaniline                           | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| 4-Chlorophenylphenylether <sup>#</sup>    | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | NA            | NA            |
| 4-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | < 0.05        | < 0.05        |
| Azobenzene <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | < 0.05        | < 0.05        |
| Bis(2-chloroethoxy)methane <sup>#</sup>   | TM16/PM30 | ug/l  | <1   |            |                      |                     | < 0.05        | < 0.05        |
| Bis(2-chloroethyl)ether <sup>#</sup>      | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | < 0.05        | < 0.05        |
| Carbazole <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | < 0.05        | 0.41          |
| Dibenzofuran <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |            |                      |                     | < 0.05        | 0.3           |
| Hexachlorobenzene <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | ES S       | 0.05                 | 0                   | < 0.05        | < 0.05        |
| Hexachlorobutadiene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | ES S       | 0.6                  | 0                   | < 0.05        | < 0.05        |
| Hexachlorocyclopentadiene                 | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| Hexachloroethane <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | < 0.05        | < 0.05        |
| Isophorone <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | < 0.05        | < 0.05        |
| Nitrobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <0   |            |                      |                     | < 0.05        | < 0.05        |
| N-nitrosodi-n-propylamine <sup>#</sup>    | TM16/PM30 | ug/l  | <1   |            |                      |                     | NA            | NA            |
| Pyrene                                    | ISO 17025 | ug/l  | 0.01 |            |                      |                     | < 0.01        | 1.9           |
| Surrogate Recovery 2-Fluorobiphenyl       | TM16/PM30 | %     | <0   |            |                      |                     | NA            | NA            |
| Surrogate Recovery p-Terphenyl-d14        | TM16/PM30 | %     |      |            |                      |                     | NA            | NA            |
| VOC MS                                    |           |       |      |            |                      |                     |               |               |
| 1,1,1,2-Tetrachloroethane <sup>#</sup>    | TM15/PM10 | ug/l  | <2   |            |                      |                     | < 1.0         | < 1.0         |
| 1,1,1-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   |            |                      |                     | < 1.0         | < 1.0         |
| 1,1,2,2-Tetrachloroethane                 | TM15/PM10 | ug/l  | <4   |            |                      |                     | < 1.0         | < 1.0         |
| 1,1,2-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   |            |                      |                     | < 1.0         | < 1.0         |
| 1,1-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup> | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 1,1-Dichloropropene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 1,2,3-Trichlorobenzene                    | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 1,2,3-Trichloropropane <sup>#</sup>       | TM15/PM10 | ug/l  | <3   | EU S       | 20                   | 0                   | < 1.0         | < 1.0         |
| 1,2,4-Trichlorobenzene                    | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 1,2,4-Trimethylbenzene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 1,2-Dibromo-3-chloropropane               | TM15/PM10 | ug/l  | <2   |            |                      |                     | < 1.0         | < 1.0         |
| 1,2-Dibromoethane <sup>#</sup>            | TM15/PM10 | ug/l  | <2   |            |                      |                     | < 1.0         | < 1.0         |
| 1,2-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 1,2-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   | EU S       | 2.5                  | 0                   | < 1.0         | < 1.0         |
| 1,2-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | UK ES      | 100                  | 0                   | < 1.0         | < 1.0         |
| 1,3,5-Trimethylbenzene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 1,3-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   | EU S       | 12                   | 0                   | < 1.0         | < 1.0         |
| 1,3-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | EU S       | 10                   | 0                   | < 1.0         | < 1.0         |
| 1,4-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   | EU S       | 10                   | 0                   | < 1.0         | < 1.0         |
| 2,2-Dichloropropane                       | TM15/PM10 | ug/l  | <1   | EU S       | 10                   | 0                   | < 1.0         | < 1.0         |
| 2-Chlorotoluene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 4-Chlorotoluene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| 4-Isopropyltoluene <sup>#</sup>           | TM15/PM10 | ug/l  | <3   |            |                      |                     |               |               |
| Benzene <sup>#</sup>                      | TM15/PM10 | ug/l  | <0.5 |            |                      |                     | < 1.0         | < 1.0         |
| Bromobenzene <sup>#</sup>                 | TM15/PM10 | ug/l  | <2   | UK ES      | 74                   | 0                   | < 1.0         | < 1.0         |
| Bromochloromethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   |            |                      |                     |               |               |
| Bromodichloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | UK ES      | 400                  | 0                   | < 1.0         | < 1.0         |
| Bromoform <sup>#</sup>                    | TM15/PM10 | ug/l  | <2   | EU S       | 10                   | 0                   |               |               |
| Bromomethane                              | TM15/PM10 | ug/l  | <1   |            |                      |                     | < 1.0         | < 1.0         |
| Carbon tetrachloride <sup>#</sup>         | TM15/PM10 | ug/l  | <2   |            |                      |                     |               |               |
| Chlorobenzene <sup>#</sup>                | TM15/PM10 | ug/l  | <2   |            |                      |                     | < 1.0         | < 1.0         |
| Chloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| Chloroform <sup>#</sup>                   | TM15/PM10 | ug/l  | <2   |            |                      |                     | < 1.0         | < 1.0         |
| Chloromethane <sup>#</sup>                | TM15/PM10 | ug/l  | <3   | OSPAR      | 10                   | 0                   | < 1.0         | < 1.0         |
| cis-1-2-Dichloroethene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            | 30                   | 0                   | < 1.0         | < 1.0         |
| cis-1-3-Dichloropropene                   | TM15/PM10 | ug/l  | <2   |            | 30                   | 0                   | < 1.0         | < 1.0         |
| Dibromochloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | UK ES      | 50                   | 0                   | < 1.0         | < 1.0         |
| Dibromomethane <sup>#</sup>               | TM15/PM10 | ug/l  | <3   |            |                      |                     |               |               |
| Dichlorodifluoromethane                   | TM15/PM10 | ug/l  | <2   |            |                      |                     |               |               |
| Dichloromethane (DCM) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   |            |                      |                     | < 1.0         | < 1.0         |
| Ethylbenzene <sup>#</sup>                 | TM15/PM10 | ug/l  | <1   |            |                      |                     | < 1.0         | < 1.0         |

| Risks to Surface Water                   |             |       |       |            | Sample ID            |                     | WS2           | WS3           |
|------------------------------------------|-------------|-------|-------|------------|----------------------|---------------------|---------------|---------------|
|                                          |             |       |       |            | Depth                |                     | None Supplied | None Supplied |
|                                          |             |       |       |            | Sample Type          |                     | None Supplied | None Supplied |
|                                          |             |       |       |            | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                          |             |       |       |            | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                     | Method      | Units | LOD   | GAC Source | GAC SW               | No. GAC Exceedances |               |               |
| Hexachlorobutadiene                      | TM15/PM10   | ug/l  | <3    |            |                      |                     | <1.0          | <1.0          |
| Isopropylbenzene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      |                     | <1.0          | <1.0          |
| m/p-Xylene <sup>#</sup>                  | TM15/PM10   | ug/l  | <2    |            |                      |                     | <1.0          | <1.0          |
| Methyl Tertiary Butyl Ether <sup>#</sup> | TM15/PM10   | ug/l  | <0.1  |            |                      |                     | <1.0          | <1.0          |
| Naphthalene                              | TM15/PM10   | ug/l  | <2    |            |                      |                     |               |               |
| n-Butylbenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <3    |            |                      |                     |               |               |
| o-Xylene <sup>#</sup>                    | TM15/PM10   | ug/l  | <1    |            |                      |                     | <1.0          | <1.0          |
| Propylbenzene <sup>#</sup>               | TM15/PM10   | ug/l  | <3    |            |                      |                     | <1.0          | <1.0          |
| sec-Butylbenzene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      |                     | <1.0          | <1.0          |
| Styrene                                  | TM15/PM10   | ug/l  | <2    |            |                      |                     | <1.0          | <1.0          |
| Surrogate Recovery 4-Bromofluorobenzene  | TM15/PM10   | %     | <0    |            |                      |                     |               |               |
| Surrogate Recovery Toluene D8            | TM15/PM10   | %     | <0    |            |                      |                     |               |               |
| tert-Butylbenzene <sup>#</sup>           | TM15/PM10   | ug/l  | <3    |            |                      |                     | <1.0          | <1.0          |
| Tetrachloroethene (PCE) <sup>#</sup>     | TM15/PM10   | ug/l  | <3    |            |                      |                     | <1.0          | <1.0          |
| Toluene <sup>#</sup>                     | TM15/PM10   | ug/l  | <5    | EU S       | 0.4                  | 0                   | <1.0          | <1.0          |
| trans-1-2-Dichloroethene <sup>#</sup>    | TM15/PM10   | ug/l  | <3    | EU S       | 0.5                  | 0                   | <1.0          | <1.0          |
| trans-1-3-Dichloropropene                | TM15/PM10   | ug/l  | <2    | WFD        | 2                    | 0                   | <1.0          | <1.0          |
| Trichloroethene (TCE) <sup>#</sup>       | TM15/PM10   | ug/l  | <3    | EU S       | 0.4                  | 0                   | <1.0          | <1.0          |
| Trichlorofluoromethane <sup>#</sup>      | TM15/PM10   | ug/l  | <3    |            |                      |                     | <1.0          | <1.0          |
| Vinyl Chloride <sup>#</sup>              | TM15/PM10   | ug/l  | <0.1  |            |                      |                     | <1.0          | <1.0          |
|                                          |             |       |       |            |                      |                     |               |               |
| VOCs TICS Compounds Name                 |             |       | 10    |            |                      | 0                   | ND            | ND            |
| VOC% Match                               |             | %     | 10    |            |                      | 0                   | 0             | 0             |
| PFAAS                                    |             |       |       |            |                      |                     |               |               |
| PFBA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFPeA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFHxA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFHpA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFOA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFNA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFDA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFUnA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFDaA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFTrDA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFTeDA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFHxDA                                   | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| PFODA                                    | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| PFBS                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFPeS                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFHxS                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFHpS                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFOS                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFNS                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFDS                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFUnDS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFDaDS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFTrDS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| HFPO-DA (Gen X)                          | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| HFPO-TA                                  | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| DONA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFMOPrA                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| NFDHA                                    | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| PFMOBA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| PFECHS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| 3:3 FTCA                                 | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| 5:3 FTCA                                 | TM135/PM121 | ug/l  | <0.5  |            |                      |                     | NA            | NA            |
| 7:3 FTCA                                 | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| PFEESA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| 9CI-PF3ONS                               | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| 11CI-PF3OUdS                             | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| 4:2 FTS                                  | TM135/PM121 | ug/l  | <0.2  |            |                      |                     | NA            | NA            |
| 6:2 FTS                                  | TM135/PM121 | ug/l  | <0.2  |            |                      |                     | NA            | NA            |
| 8:2 FTS                                  | TM135/PM121 | ug/l  | <0.2  |            |                      |                     | NA            | NA            |
| FBSA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| FHxSA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | NA            | NA            |
| FOSA                                     | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| N-MeFOSA                                 | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| N-EtFOSA                                 | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| Me-FOSE                                  | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| Et-FOSE                                  | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | NA            | NA            |
| N-MeFOSAA                                | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| N-EtFOSAA                                | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| 8:2diPAP                                 | TM135/PM121 | ug/l  | <0.2  |            |                      |                     | NA            | NA            |
| FOUEA                                    | TM135/PM121 | ug/l  | <1    |            |                      |                     | NA            | NA            |
| Total PFAS                               |             | ug/l  |       |            |                      |                     | NA            | NA            |



|                            |                |          |        |            |                      |                     |               |               |
|----------------------------|----------------|----------|--------|------------|----------------------|---------------------|---------------|---------------|
| Risks to Surface Water     |                |          |        |            | Sample ID            |                     | WS2           | WS3           |
|                            |                |          |        |            | Depth                |                     | None Supplied | None Supplied |
|                            |                |          |        |            | Sample Type          |                     | None Supplied | None Supplied |
|                            |                |          |        |            | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                            |                |          |        |            | Sample Received Date |                     | None Supplied | None Supplied |
| Test                       | Method         | Units    | LOD    | GAC Source | GAC SW               | No. GAC Exceedances |               |               |
|                            |                |          |        |            |                      |                     |               |               |
| 1,4-Dioxane*               | Subcontracted/ | ug/l     | <0.07  |            | 50                   | 0                   | NA            | NA            |
| BOD (Settled) #            | TM58/PM0       | mg/l     | <1     |            |                      | 0                   | NA            | NA            |
| COD (Settled) #            | TM57/PM0       | mg/l     | <7     |            |                      | 0                   | NA            | NA            |
| Dissolved Organic Carbon # | TM60/PM0       | mg/l     | <2     |            |                      | 0                   | 8.21          | 21.4          |
| Free Ammonia as NH3        | TM176/PM0      | mg/l     | <0.007 |            |                      | 0                   | 120           | 6500          |
| pH #                       | TM73/PM0       | pH units | <0.01  |            |                      | 0                   | 7.1           | 6.9           |

| Risks to Surface Water              |           |       |        |                        |                           |                     | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         |              |               |               |
|-------------------------------------|-----------|-------|--------|------------------------|---------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
|                                     |           |       |        |                        | Sample ID                 |                     | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         | SW01         | SW02          |               |
|                                     |           |       |        |                        | Depth                     |                     | 2.00         | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         | SURFACE      | SURFACE       |               |
|                                     |           |       |        |                        | Sample Type               |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water |
|                                     |           |       |        |                        | Sampled Date              |                     | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023    | 28/09/2023    |
| Sample Received Date                |           |       |        |                        | 29/09/2023                | 29/09/2023          | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023    |               |
| Test                                | Method    | Units | LOD    | GAC Source             | GAC Commercial/Industrial | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Metals                              |           |       |        |                        |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Dissolved Arsenic #                 | TM30/PM14 | ug/l  | <2.5   | EQS                    | 50                        | 0                   | 2.8          | 5            | 9.9          | 13.1         | 5.2          | <2.5         | <2.5         | <2.5         | 26.9         | <2.5         | 18.3         | 30.3         | <2.5         | 29.2         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5          |               |
| Dissolved Beryllium                 | TM30/PM14 | ug/l  | <0.5   |                        |                           |                     | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          |               |
| Dissolved Boron                     | TM30/PM14 | ug/l  | <12    | EQS                    | 2000                      | 2                   | 267          | 184          | 264          | 1814         | 152          | 165          | 222          | 569          | 508          | 578          | 211          | 70           | 1108         | 71           | 2244         | 1923         | 2104         | 960          | 584          | 61           | 53            |               |
| Dissolved Cadmium #                 | TM30/PM14 | ug/l  | <0.5   | WFD hardness dependent | 0.25                      | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          |               |
| Dissolved Calcium #                 | TM30/PM14 | ug/l  | <0.2   |                        |                           |                     | -            | 130.6        | -            | -            | 254.5        | -            | 166.2        | 358.2        | 564.8        | 284          | 363.4        | -            | -            | -            | 194.5        | 294.2        | -            | -            | 292.6        | 102.3        | 109.8         |               |
| Total Dissolved Chromium #          | TM30/PM14 | ug/l  | <1.5   | EQS                    | 4.7                       | 0                   | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5          |               |
| Dissolved Copper #                  | TM30/PM14 | ug/l  | <7     | EQS bioavailable       | 6.81                      | 8                   | <7           | <7           | 14           | <7           | <7           | <7           | <7           | 41           | <7           | 39           | 17           | 46           | <7           | 31           | <7           | 12           | <7           | 12           | <7           | <7           | <7            |               |
| Total Dissolved Iron #              | TM30/PM14 | ug/l  | <20    | EQS                    | 1000                      | 15                  | 236          | 264          | 8534         | 21474        | 3971         | 55           | 106          | 28260        | 4827         | 29243        | 12531        | 33388        | 3744         | 22159        | 2477         | 7819         | 1486         | 6826         | 1080         | 30           | <20           |               |
| Dissolved Lead #                    | TM30/PM14 | ug/l  | <5     | WFD bioavailable       | 1.2                       | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            |               |
| Dissolved Magnesium #               | TM30/PM14 | ug/l  | <0.1   |                        |                           |                     | -            | 3.8          | -            | -            | 14.6         | -            | 12.8         | 33.6         | 41.5         | 23.7         | 20.3         | -            | -            | -            | 30.9         | 38.9         | -            | -            | 26.4         | 5.1          | 4.3           |               |
| Dissolved Mercury #                 | TM30/PM14 | ug/l  | <1     | WFD                    | 0.07                      | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1            |               |
| Dissolved Nickel #                  | TM30/PM14 | ug/l  | <2     | WFD bioavailable       | 16.31                     | 2                   | 3            | <2           | 4            | 2            | 2            | 4            | 28           | <2           | <2           | <2           | <2           | 8            | 3            | 9            | <2           | <2           | <2           | 34           | <2           | <2           | <2            |               |
| Dissolved Potassium #               | TM30/PM14 | mg/l  | <0.1   |                        |                           |                     | -            | 25.2         | -            | -            | 8            | -            | 6.2          | 30.6         | 25.4         | 16.8         | 4.5          | -            | -            | -            | 31.7         | 24           | -            | -            | 30.3         | 8.2          | 8.8           |               |
| Dissolved Selenium #                | TM30/PM14 | ug/l  | <3     |                        |                           |                     | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3            |               |
| Dissolved Sodium #                  | TM30/PM14 | mg/l  | <0.1   |                        |                           |                     | -            | 29.6         | -            | -            | 69.6         | -            | 48.2         | 29.4         | 52.6         | 56.3         | 98.4         | -            | -            | -            | 146.5        | 57.2         | -            | -            | 26.4         | 42.5         | 46.7          |               |
| Dissolved Vanadium #                | TM30/PM14 | ug/l  | <1.5   | EQS hardness dependent | 60                        | 0                   | 7            | 4.9          | 2.5          | 5.8          | 2.6          | 2.2          | <1.5         | 5.1          | 3.2          | 4.8          | 3.9          | 5            | 2.7          | 11.9         | 3.8          | 3.7          | 7.1          | 2.9          | 2.5          | 1.6          | 1.9           |               |
| Dissolved Zinc #                    | TM30/PM14 | ug/l  | <3     | EQS bioavailable       | 30.47                     | 2                   | 7            | <3           | 6            | 3            | <3           | 15           | 217          | 7            | 5            | 7            | 4            | 5            | <3           | 9            | 5            | 3            | <3           | 413          | <3           | 11           | 10            |               |
| Total Hardness Dissolved (as CaCO3) | TM30/PM14 | mg/l  | <1     |                        |                           |                     | 403          | 342          | 555          | 1156         | 698          | 391          | 469          | 1037         | 1586         | 810          | 994          | 738          | 844          | 539          | 616          | 899          | 922          | 947          | 842          | 277          | 293           |               |
| PAH MS                              |           |       |        |                        |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Naphthalene #                       | TM4/PM30  | ug/l  | <0.1   | WFD                    | 2                         | 0                   | <0.01        | <0.01        | <0.01        | 0.05         | <0.01        | <0.01        | <0.01        | <0.01        | 0.23         | 0.02         | 0.04         | 0.03         | 0.02         | <0.01        | 0.01         | <0.01        | <0.01        | 0.03         | 0.01         | <0.01        | <0.01         | <0.01         |
| Acenaphthylene #                    | TM4/PM30  | ug/l  | <0.005 |                        |                           |                     | <0.005       | <0.005       | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.018        | <0.005       | <0.005       | 0.028        | <0.005       | <0.005       | <0.005       | 0.044        | <0.005       | 0.014        | <0.005        | <0.005        |
| Acenaphthene #                      | TM4/PM30  | ug/l  | <0.005 |                        |                           |                     | 0.165        | 0.029        | 0.013        | 0.148        | <0.005       | <0.005       | <0.005       | <0.005       | 1.14         | 0.334        | 0.608        | 0.007        | 0.014        | 2.5          | <0.005       | 0.146        | 0.217        | 1.59         | <0.005       | 1.31         | <0.005        | <0.005        |
| Fluorene #                          | TM4/PM30  | ug/l  | <0.005 |                        |                           |                     | <0.005       | <0.005       | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | 0.864        | 0.013        | 0.318        | <0.005       | 0.008        | 1.31         | <0.005       | <0.005       | 0.045        | 0.286        | <0.005       | 0.145        | <0.005        | <0.005        |
| Phenanthrene #                      | TM4/PM30  | ug/l  | <0.005 |                        |                           |                     | 0.024        | <0.005       | 0.008        | 0.042        | <0.005       | <0.005       | <0.005       | <0.005       | 0.332        | 0.009        | 0.02         | <0.005       | 0.007        | 0.009        | 0.007        | <0.005       | 0.017        | <0.005       | 0.011        | <0.005       | <0.005        | <0.005        |
| Anthracene #                        | TM4/PM30  | ug/l  | <0.005 | WFD                    | 0.1                       | 0                   | 0.011        | <0.005       | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | 0.093        | 0.007        | 0.025        | <0.005       | <0.005       | 0.075        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.018        | <0.005        | <0.005        |
| Fluoranthene #                      | TM4/PM30  | ug/l  | <0.005 | WFD                    | 0.0063                    | 11                  | 0.161        | <0.005       | 0.013        | <0.025       | <0.005       | 0.008        | <0.005       | 0.329        | 0.064        | <0.005       | <0.005       | 0.006        | 0.426        | <0.005       | 0.031        | 0.008        | 0.012        | 0.007        | 0.566        | <0.005       | 0.006         |               |
| Pyrene #                            | TM4/PM30  | ug/l  | <0.005 |                        |                           |                     | 0.181        | <0.005       | 0.012        | <0.025       | <0.005       | 0.           |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |

| Risks to Surface Water                  |               |            |            |            |                           |                     | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         |              |              |              |              |            |
|-----------------------------------------|---------------|------------|------------|------------|---------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
|                                         |               |            |            |            | Sample ID                 |                     | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         |              |              |              |              |            |
|                                         |               |            |            |            | Depth                     |                     | 2.00         | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         | SURFACE      | SURFACE      |              |              |            |
|                                         |               |            |            |            | Sample Type               |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |            |
|                                         |               |            |            |            | Sampled Date              |                     | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023 |
| Sample Received Date                    |               | 29/09/2023 | 29/09/2023 | 29/09/2023 | 29/09/2023                | 29/09/2023          | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   |              |              |              |            |
| Test                                    | Method        | Units      | LOD        | GAC Source | GAC Commercial/Industrial | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |            |
| Trichloroethene (TCE) #                 | TM15/PM10     | ug/l       | <3         | EU S       | 10                        | 0                   |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,2-Dichloropropane #                   | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| Dibromomethane #                        | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| Bromodichloromethane #                  | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| cis-1-3-Dichloropropene                 | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| Toluene #                               | TM15/PM10     | ug/l       | <5         | UK ES      | 74                        | 0                   |              | <5           |              | <5           |              | <5           | <5           |              | <5           | <5           |              | <5           |              | <5           | <5           |              | <5           | <5           |              |              |              |              |              |            |
| trans-1-3-Dichloropropene               | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| 1,1,2-Trichloroethane #                 | TM15/PM10     | ug/l       | <2         | UK ES      | 400                       | 0                   |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| Tetrachloroethene (PCE) #               | TM15/PM10     | ug/l       | <3         | EU S       | 10                        | 0                   |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,3-Dichloropropane #                   | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| Dibromochloromethane #                  | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| 1,2-Dibromoethane #                     | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| Chlorobenzene #                         | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           | 8            | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| 1,1,1,2-Tetrachloroethane #             | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| Ethylbenzene #                          | TM15/PM10     | ug/l       | <1         | OSPAR      | 10                        | 0                   |              | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |              |              |              |              |            |
| m/p-Xylene #                            | TM15/PM10     | ug/l       | <2         |            | 30                        | 0                   |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| o-Xylene #                              | TM15/PM10     | ug/l       | <1         |            | 30                        | 0                   |              | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |              |              |              |              |            |
| Styrene                                 | TM15/PM10     | ug/l       | <2         | UK ES      | 50                        | 0                   |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| Bromoform #                             | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| Isopropylbenzene #                      | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,1,2,2-Tetrachloroethane               | TM15/PM10     | ug/l       | <4         |            |                           |                     |              | <4           |              | <4           |              | <4           | <4           |              | <4           | <4           |              | <4           |              | <4           | <4           |              | <4           | <4           |              |              |              |              |              |            |
| Bromobenzene #                          | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| 1,2,3-Trichloropropane #                | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| Propylbenzene #                         | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 2-Chlorotoluene #                       | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,3,5-Trimethylbenzene #                | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 4-Chlorotoluene #                       | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| tert-Butylbenzene #                     | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,2,4-Trimethylbenzene #                | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| sec-Butylbenzene #                      | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 4-Isopropyltoluene #                    | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,3-Dichlorobenzene #                   | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,4-Dichlorobenzene #                   | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| n-Butylbenzene #                        | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,2-Dichlorobenzene #                   | TM15/PM10     | ug/l       | <3         |            |                           |                     |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| 1,2-Dibromo-3-chloropropane             | TM15/PM10     | ug/l       | <2         |            |                           |                     |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              |              |              |              |              |            |
| 1,2,4-Trichlorobenzene                  | TM15/PM10     | ug/l       | <3         | EU S       | 0.4                       | 0                   |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| Hexachlorobutadiene                     | TM15/PM10     | ug/l       | <3         | EU S       | 0.5                       | 0                   |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| Naphthalene                             | TM15/PM10     | ug/l       | <2         | WFD        | 2                         | 1                   |              | <2           |              | <2           |              | <2           | <2           |              | <2           | <2           |              | <2           |              | <2           | 9            |              | <2           | <2           |              |              |              |              |              |            |
| 1,2,3-Trichlorobenzene                  | TM15/PM10     | ug/l       | <3         | EU S       | 0.4                       | 0                   |              | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              | <3           |              | <3           | <3           |              | <3           | <3           |              |              |              |              |              |            |
| Surrogate Recovery Toluene D8           | TM15/PM10     | %          | <0         |            |                           |                     |              | 105          |              | 124          |              | 100          | 95           |              | 99           | 109          |              | 106          |              | 103          | 94           |              | <107         | 90           |              |              |              |              |              |            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10     | %          | <0         |            |                           |                     |              | 108          |              | 124          |              | 98           | 94           |              | 96           | 110          |              | 103          |              | 98           | 92           |              | 102          | 87           |              |              |              |              |              |            |
| Methyl Tertiary Butyl Ether #           | TM15/PM10     | ug/l       | <0.1       |            |                           |                     |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <0.1         | <5           |              |              |              |            |
| Benzene #                               | TM15/PM10     | ug/l       | <0.5       | WFD        | 10                        | 0                   |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <0.5         | <5           |              |              |              |            |
| Toluene #                               | TM15/PM10     | ug/l       | <5         | EQS        | 74                        | 0                   |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |              |              |              |            |
| Ethylbenzene #                          | TM15/PM10     | ug/l       | <1         |            |                           |                     |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <1           | <5           |              |              |              |            |
| m/p-Xylene #                            | TM15/PM10     | ug/l       | <2         | EQS        | 30                        | 0                   |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <2           | <5           |              |              |              |            |
| o-Xylene #                              | TM15/PM10     | ug/l       | <1         | EQS        | 30                        | 0                   |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <1           | <5           |              |              |              |            |
| Surrogate Recovery Toluene D8           | TM15/PM10     | %          | <0         |            |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              | 90           |              |              |              |              |              |            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10     | %          | <0         |            |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              | 87           |              |              |              |              |              |            |
| TPH CWG                                 |               |            |            |            |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |            |
| Aliphatics                              |               |            |            |            |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |            |
| >C5-C6 #                                | TM36/PM12     | ug/l       | <10        |            | 10                        | 0                   |              | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |              |              |            |
| >C6-C8 #                                | TM36/PM12     | ug/l       | <10        |            | 10                        | 0                   |              | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |              |              |            |
| >C8-C10 #                               | TM36/PM12     | ug/l       | <10        |            | 10                        | 1                   |              | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | 27           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |              |              |            |
| >C10-C12 #                              | TM5/PM16/PM30 | ug/l       | <5         |            | 10                        | 2                   |              | <5           | <5           | <5           | <5           | <5           | 54           | <5           | 117          | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |              |              |              |            |
| >C12-C16 #                              | TM5/PM16/PM30 | ug/l       | <10        |            | 10                        | 2                   |              | <10          | <10          | <10          | <10          | <10          | <10          | 240          | <10          | 690          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |              |              |            |
| >C16-C21 #                              | TM5/PM16/PM30 | ug/l       | <10        |            |                           |                     |              | <10          | <10          | <10          | <10          | <10          | <10          | 470          | <10          | 250          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |              |              |            |
| >C21-C35 #                              | TM5/PM16/PM30 | ug/l       | <10        |            |                           |                     |              | <10          | <10          | <10          | <10          | <10          | <10          | 510          | &lt          |              |              |              |              |              |              |              |              |              |              |              |              |              |              |            |

| Risks to Surface Water                  |                         |          |       |                          |                           |                     | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         | SW01         | SW02          |               |
|-----------------------------------------|-------------------------|----------|-------|--------------------------|---------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
|                                         |                         |          |       |                          | Sample ID                 |                     | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         | SW01         | SW02          |               |
|                                         |                         |          |       |                          | Depth                     |                     | 2.00         | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         | SURFACE      | SURFACE       |               |
|                                         |                         |          |       |                          | Sample Type               |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water |
|                                         |                         |          |       |                          | Sampled Date              |                     | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023    | 28/09/2023    |
| Sample Received Date                    |                         |          |       |                          | 29/09/2023                | 29/09/2023          | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023    |               |
| Test                                    | Method                  | Units    | LOD   | GAC Source               | GAC Commercial/Industrial | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Aromatics                               |                         |          |       |                          |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| >C5-EC7 #                               | TM36/PM12               | ug/l     | <10   | WFD                      | 10                        | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |
| >EC7-EC8 #                              | TM36/PM12               | ug/l     | <10   |                          | 10                        | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |
| >EC8-EC10 #                             | TM36/PM12               | ug/l     | <10   |                          | 10                        | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |
| >EC10-EC12 #                            | TM5/PM16/PM30           | ug/l     | <5    |                          | 10                        | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            |               |
| >EC12-EC16 #                            | TM5/PM16/PM30           | ug/l     | <10   |                          | 10                        | 3                   | <10          | <10          | <10          | 40           | <10          | <10          | <10          | 160          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | 20           | <10          | <10           |               |
| >EC16-EC21 #                            | TM5/PM16/PM30           | ug/l     | <10   |                          |                           |                     | <10          | <10          | <10          | 190          | <10          | <10          | <10          | 390          | <10          | <10          | <10          | <10          | 30           | <10          | <10          | <10          | <10          | <10          | <10          | 630          | <10           | <10           |
| >EC21-EC35 #                            | TM5/PM16/PM30           | ug/l     | <10   |                          |                           |                     | <10          | <10          | <10          | 470          | <10          | <10          | <10          | 750          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |
| Total aromatics C5-35 #                 | TM5/TM36/PM12/PM16/PM30 | ug/l     | <10   |                          |                           |                     | <10          | <10          | <10          | 700          | <10          | <10          | <10          | 1300         | <10          | <10          | <10          | <10          | 30           | <10          | <10          | <10          | <10          | <10          | <10          | 650          | <10           | <10           |
| Total aliphatics and aromatics(C5-35) # | TM5/TM36/PM12/PM16/PM30 | ug/l     | <10   |                          |                           |                     | <10          | <10          | <10          | 700          | <10          | <10          | <10          | 2574         | <10          | 1297         | <10          | <10          | 57           | <10          | <10          | <10          | <10          | <10          | <10          | 650          | <10           | <10           |
| Total Phenols HPLC                      | TM26/PM0                | mg/l     | <0.15 | EQS                      | 0.0077                    | 0                   | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15         |               |
|                                         |                         |          |       |                          |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| Sulphate as SO4 #                       | TM89/PM0                | mg/l     | <0.5  | EQS                      | 400                       | 0                   | 111.7        | 202.4        | 108.5        | <0.5         | 66.6         | 100.7        | 96.6         | 1.5          | 332.2        | <0.5         | 161.5        | 5.3          | 11.6         | <0.5         | 11.6         | 86           | 27           | <0.5         | 21.8         | 48.3         | 48.8          |               |
| Chloride #                              | TM38/PM0                | mg/l     | <0.3  | EQS                      | 250                       | 1                   | 48           | 24.5         | 46.8         | 41.5         | 85.3         | 68.3         | 71.4         | 21.2         | 24.3         | 73.2         | 41           | 52           | 29.8         | 14.6         | 254.9        | 48.2         | 81.6         | 38.3         | 18.4         | 63.1         | 66.3          |               |
| Nitrate as NO3 #                        | TM38/PM0                | mg/l     | <0.2  |                          |                           |                     | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | 3.9          | 1.2          | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | 38.6         | 39.1          |               |
| Nitrite as NO2 #                        | TM38/PM0                | mg/l     | <0.02 |                          |                           |                     | 0.02         | <0.02        | 0.05         | <0.02        | <0.02        | 0.05         | 0.06         | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02         |               |
| Ortho Phosphate as PO4 #                | TM38/PM0                | mg/l     | <0.06 |                          |                           |                     | 0.46         | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | 0.21         | 0.08         | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | 1.67         | 1             |               |
| Nitrate as N #                          | TM38/PM0                | mg/l     | <0.05 |                          |                           |                     | -            | <0.05        | -            | -            | <0.05        | -            | 0.28         | <0.05        | <0.05        | <0.05        | <0.05        | -            | -            | -            | <0.05        | <0.05        | -            | -            | <0.05        | 8.72         | 8.82          |               |
| Total Cyanide #                         | TM89/PM0                | mg/l     | <0.01 | EQS                      | 1                         | 0                   | <0.01        | <0.01        | <0.01        | 0.02         | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | 0.01         | <0.01        | 0.02         | <0.01        | 0.01         | <0.01        | 0.02         | <0.01        | <0.01         |               |
| Ammoniacal Nitrogen as N #              | TM38/PM0                | mg/l     | <0.03 | EQS alkalinity dependent | 2.5                       | 16                  | 3.72         | 3.82         | 1.42         | 6.74         | 2.73         | 0.19         | 0.47         | 16.52        | 10.72        | 14.36        | 2.53         | 4.71         | 17.07        | 2.82         | 14.99        | 9.08         | 25.74        | 2.87         | 11.38        | 0.03         | 0.04          |               |
| Hexavalent Chromium                     | TM38/PM0                | ug/l     | <6    | EQS                      | 3.4                       | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            |               |
| Total Dissolved Chromium III            | TM0/PM0                 | ug/l     | <6    | EQS                      | 4.7                       | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            |               |
| Total Alkalinity as CaCO3 #             | TM75/PM0                | mg/l     | <1    |                          |                           |                     | 478          | 164          | 1470         | 1242         | 670          | 330          | 516          | 1196         | 1282         | 894          | 964          | 776          | 950          | 642          | 796          | 896          | 1096         | 892          | 876          | 230          | 256           |               |
| Sulphide                                | TM107/PM0               | mg/l     | <0.01 |                          |                           |                     | -            | 0.01         | -            | -            | <0.01        | -            | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | -            | -            | -            | <0.01        | <0.01        | -            | -            | <0.01        | <0.01        | <0.01         |               |
| BOD (Settled) #                         | TM58/PM0                | mg/l     | <1    | EQS alkalinity dependent | 9                         | 12                  | 5            | 4            | 7            | 22           | 9            | 3            | 5            | 21           | 11           | 25           | 19           | 17           | 16           | 26           | 18           | 13           | 21           | -            | 20           | <1           | 1             |               |
| COD (Settled) #                         | TM57/PM0                | mg/l     | <7    |                          |                           |                     | 52           | 61           | 38           | 114          | 57           | 33           | 31           | 74           | 112          | 53           | 78           | 63           | 85           | 118          | 139          | 80           | 122          | -            | 55           | 17           | <7            |               |
| Dissolved Organic Carbon #              | TM60/PM0                | mg/l     | <2    |                          |                           |                     | 15           | 19           | 9            | 16           | 7            | 6            | 6            | 12           | 29           | <2           | <2           | 25           | 19           | 16           | 30           | 8            | 13           | 15           | 5            | <2           | <2            |               |
| pH #                                    | TM73/PM0                | pH units | <0.01 |                          |                           |                     | 7.78         | 7.88         | 7.64         | 7.49         | 7.56         | 7.54         | 7.6          | 7.18         | 7.44         | 7.15         | 7.45         | 7.32         | 7.56         | 7.46         | 7.91         | 7.51         | 7.57         | 7.69         | 7.65         | 8.15         | 8.17          |               |
| Phenols                                 |                         |          |       |                          |                           |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| 2-Chlorophenol #                        | TM16/PM30               | ug/l     | <1    | UK ES                    | 50                        | 0                   |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| 2-Methylphenol #                        | TM16/PM30               | ug/l     | <0.5  |                          |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              |               |               |
| 2-Nitrophenol                           | TM16/PM30               | ug/l     | <0.5  |                          |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              | <0           |              |              |               |               |

| Risks to Surface Water              |           |       |      |            |                           |                     | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         |              |               |               |
|-------------------------------------|-----------|-------|------|------------|---------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
|                                     |           |       |      |            | Sample ID                 | BH2520              | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         |              |              | SW01          | SW02          |
|                                     |           |       |      |            | Depth                     | 2.00                | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         |              |              | SURFACE       | SURFACE       |
|                                     |           |       |      |            | Sample Type               | Ground Water        | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water |
|                                     |           |       |      |            | Sampled Date              | 28/09/2023          | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023    | 28/09/2023    |
| Sample Received Date                |           |       |      |            | 29/09/2023                | 29/09/2023          | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   |               |               |
| Test                                | Method    | Units | LOD  | GAC Source | GAC Commercial/Industrial | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |
| 4-Bromophenylphenylether #          | TM16/PM30 | ug/l  | <1   |            |                           |                     |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| 4-Chloroaniline                     | TM16/PM30 | ug/l  | <1   |            |                           |                     |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| 4-Chlorophenylphenylether #         | TM16/PM30 | ug/l  | <1   |            |                           |                     |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| 4-Nitroaniline                      | TM16/PM30 | ug/l  | <0.5 |            |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              |               |               |
| Azobenzene #                        | TM16/PM30 | ug/l  | <0.5 |            |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              |               |               |
| Bis(2-chloroethoxy)methane #        | TM16/PM30 | ug/l  | <0.5 |            |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              |               |               |
| Bis(2-chloroethyl)ether #           | TM16/PM30 | ug/l  | <1   |            |                           |                     |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| Carbazole #                         | TM16/PM30 | ug/l  | <0.5 |            |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | 1.5          |              | <0.5         | 0.6          |              | <0.5         | <0.5         |              |               |               |
| Dibenzofuran #                      | TM16/PM30 | ug/l  | <0.5 |            |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | 0.6          |              | <0.5         | <0.5         |              | 0.5          |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              |               |               |
| Hexachlorobenzene #                 | TM16/PM30 | ug/l  | <1   | ES S       | 0.05                      | 0                   |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| Hexachlorobutadiene #               | TM16/PM30 | ug/l  | <1   | ES S       | 0.6                       | 0                   |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| Hexachlorocyclopentadiene           | TM16/PM30 | ug/l  | <1   |            |                           |                     |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| Hexachloroethane #                  | TM16/PM30 | ug/l  | <1   |            |                           |                     |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| Isophorone #                        | TM16/PM30 | ug/l  | <0.5 |            |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              |               |               |
| N-nitrosodi-n-propylamine #         | TM16/PM30 | ug/l  | <0.5 |            |                           |                     |              | <0.5         |              |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              | <0.5         |              | <0.5         | <0.5         |              | <0.5         | <0.5         |              |               |               |
| Nitrobenzene #                      | TM16/PM30 | ug/l  | <1   |            |                           |                     |              | <1           |              |              | <1           |              | <1           | <1           |              | <1           | <1           |              | <1           |              | <1           | <1           |              | <1           | <1           |              |               |               |
| Surrogate Recovery 2-Fluorobiphenyl | TM16/PM30 | %     | <0   |            |                           |                     |              | 98           |              |              | 78           |              | 70           | 88           |              | 88           | 109          |              | 86           |              | 120          | 87           |              | 90           | 110          |              |               |               |
| Surrogate Recovery p-Terphenyl-d14  | TM16/PM30 | %     | <0   |            |                           |                     |              | 104          |              |              | 96           |              | 87           | 111          |              | 118          | 117          |              | 121          |              | 130          | 116          |              | 106          | 120          |              |               |               |
| PCB 28 #                            | TM17/PM30 | ug/l  | <0.1 |            |                           |                     | -            | <0.1         | -            | <0.1         | -            | -            | <0.1         | -            | <0.1         | <0.1         | -            | -            | -            | <0.1         | -            | -            | -            | -            | <0.1         | <0.1         |               |               |
| PCB 52 #                            | TM17/PM30 | ug/l  | <0.1 |            |                           |                     | -            | <0.1         | -            | <0.1         | -            | -            | <0.1         | -            | <0.1         | <0.1         | -            | -            | -            | <0.1         | -            | -            | -            | -            | <0.1         | <0.1         |               |               |
| PCB 101 #                           | TM17/PM30 | ug/l  | <0.1 |            |                           |                     | -            | <0.1         | -            | <0.1         | -            | -            | <0.1         | -            | <0.1         | <0.1         | -            | -            | -            | <0.1         | -            | -            | -            | -            | <0.1         | <0.1         |               |               |
| PCB 118 #                           | TM17/PM30 | ug/l  | <0.1 |            |                           |                     | -            | <0.1         | -            | <0.1         | -            | -            | <0.1         | -            | <0.1         | <0.1         | -            | -            | -            | <0.1         | -            | -            | -            | -            | <0.1         | <0.1         |               |               |
| PCB 138 #                           | TM17/PM30 | ug/l  | <0.1 |            |                           |                     | -            | <0.1         | -            | <0.1         | -            | -            | <0.1         | -            | <0.1         | <0.1         | -            | -            | -            | <0.1         | -            | -            | -            | -            | <0.1         | <0.1         |               |               |
| PCB 153 #                           | TM17/PM30 | ug/l  | <0.1 |            |                           |                     | -            | <0.1         | -            | <0.1         | -            | -            | <0.1         | -            | <0.1         | <0.1         | -            | -            | -            | <0.1         | -            | -            | -            | -            | <0.1         | <0.1         |               |               |
| PCB 180 #                           | TM17/PM30 | ug/l  | <0.1 |            |                           |                     | -            | <0.1         | -            | <0.1         | -            | -            | <0.1         | -            | <0.1         | <0.1         | -            | -            | -            | <0.1         | -            | -            | -            | -            | <0.1         | <0.1         |               |               |
| Total 7 PCBs                        | TM17/PM30 | ug/l  | <0.7 |            |                           |                     | -            | <0.7         | -            | <0.7         | -            | -            | <0.7         | -            | <0.7         | <0.7         | -            | -            | -            | <0.7         | -            | -            | -            | -            | <0.7         | <0.7         |               |               |

| Risks to Surface Water                  |                         |       |        |                        | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01         | SW02         | SW03          |               |               |  |  |
|-----------------------------------------|-------------------------|-------|--------|------------------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|--|--|
|                                         |                         |       |        |                        | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |              |              |               |               |               |  |  |
|                                         |                         |       |        |                        | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |  |  |
|                                         |                         |       |        |                        | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 26/02/2024    | 26/02/2024    |               |  |  |
|                                         |                         |       |        |                        | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024    |               |               |  |  |
| Test                                    | Method                  | Units | LOD    | GAC Source             | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |  |
| Metals                                  |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |  |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   | EQS                    | 50                   | 0                   | 3.7          | 4.2          | 2.9          | 3.8          | <2.5         | <2.5         | 8.4          | 12.7         | 5.3          | <2.5         | <2.5         | <2.5         | 4.5          | <2.5         | <2.5         | <2.5         | <2.5          |               |               |  |  |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   |                        |                      | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          |               |               |  |  |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    | EQS                    | 2000                 | 0                   | 200          | 468          | 624          | 1590         | 57           | 126          | 879          | 100          | 208          | 191          | 392          | 454          | 126          | 362          | 56           | 48           | 41            |               |               |  |  |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   | WFD hardness dependent | 0.25                 | 1                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | 0.6          | <0.5         | <0.5         | <0.5          |               |               |  |  |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   | EQS                    | 4.7                  | 0                   | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5          |               |               |  |  |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     | EQS bioavailable       | 6.81                 | 2                   | 9            | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | 58           | <7           | <7           | <7            |               |               |  |  |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    | EQS                    | 1000                 | 5                   | <20          | 2221         | 39           | 246          | <20          | 66           | 40           | 5125         | 4246         | 21731        | 9599         | 672          | 38           | <20          | 34           | 30           | 28            |               |               |  |  |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | WFD bioavailable       | 1.2                  | 1                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | 15           | <5           | <5           | <5            |               |               |  |  |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     | WFD                    | 0.07                 | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1            |               |               |  |  |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     | WFD bioavailable       | 16.31                | 1                   | 2            | 3            | <2           | <2           | <2           | 6            | <2           | 4            | 5            | <2           | <2           | <2           | 10           | 31           | <2           | <2           | <2            |               |               |  |  |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     |                        |                      | 0                   | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3            |               |               |  |  |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   | EQS hardness dependent | 60                   | 0                   | 2            | 3            | 4.6          | 3.5          | 7.2          | 4.5          | 4.5          | 1.9          | <1.5         | 2.6          | 2.1          | 2            | 6.3          | 1.5          | <1.5         | <1.5         | <1.5          |               |               |  |  |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     | EQS bioavailable       | 30.47                | 1                   | 7            | 4            | 4            | <3           | <3           | 18           | <3           | 5            | <3           | 8            | 8            | <3           | 7            | 1111         | 8            | 8            | 7             |               |               |  |  |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |                        |                      | 0                   | 570          | 1268         | 525          | 632          | 199          | 292          | 1128         | 410          | 735          | 831          | 850          | 795          | 467          | 1102         | 278          | 281          | 284           |               |               |  |  |
| PAH MS                                  |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |  |
| Napthalene #                            | TM4/PM30                | ug/l  | <0.1   | WFD                    | 2                    | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <3.0         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <2.0         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1          |               |               |  |  |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |                        |                      | 0                   | 0.053        | 0.008        | 0.204        | 0.027        | <0.005       | 0.666        | 0.039        | <0.005       | <0.005       | 0.013        | <0.005       | 0.253        | 0.009        | <0.005       | <0.005       | <0.005       | <0.005        |               |               |  |  |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |                        |                      | 0                   | 0.12         | 0.17         | 8.668        | 2.561        | <0.005       | <0.150       | 2.042        | <0.005       | <0.005       | 0.706        | 0.888        | 3.677        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005        |               |               |  |  |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |                        |                      | 0                   | 0.025        | 0.022        | 1.958        | 0.529        | <0.005       | <0.150       | 0.269        | <0.005       | <0.005       | 0.68         | 0.528        | 0.738        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005        |               |               |  |  |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |                        |                      | 0                   | 0.214        | <0.005       | <0.005       | 0.07         | <0.005       | 0.821        | <0.005       | 0.007        | <0.005       | 0.529        | 0.044        | 1.024        | 0.009        | <0.005       | <0.005       | <0.005       | <0.005        |               |               |  |  |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.1                  | 5                   | 0.094        | <0.005       | 0.137        | 0.105        | 0.01         | 0.978        | <0.005       | 0.01         | 0.007        | 0.167        | 0.06         | 1.602        | 0.023        | 0.009        | <0.005       | <0.005       | <0.005        |               |               |  |  |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.0063               | 16                  | 1.114        | 0.03         | 1.116        | 0.295        | 0.012        | 4.429        | 0.7          | 0.018        | 0.005        | 0.428        | 0.05         | 28.734       | 0.047        | 0.015        | 0.014        | 0.018        | 0.023         |               |               |  |  |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |                        |                      | 0                   | 1.021        | 0.029        | 0.739        | 0.192        | 0.013        | 4.773        | 0.582        | 0.02         | 0.006        | 0.297        | 0.038        | 23.981       | 0.05         | 0.015        | 0.016        | 0.018        | 0.022         |               |               |  |  |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |                        |                      | 0                   | 0.531        | 0.013        | 0.077        | 0.017        | 0.008        | 2.728        | 0.287        | 0.013        | <0.005       | 0.061        | <0.005       | 8.882        | 0.041        | 0.016        | 0.008        | 0.011        | 0.014         |               |               |  |  |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |                        |                      | 0                   | 0.522        | 0.009        | 0.074        | 0.015        | 0.008        | 3.38         | 0.265        | 0.01         | <0.005       | 0.058        | <0.005       | 10.284       | 0.036        | 0.012        | 0.006        | 0.01         | 0.011         |               |               |  |  |
| Benzo(bk)fluoranthene #                 | TM4/PM30                | ug/l  | <0.008 |                        |                      | 0                   | 1.134        | 0.018        | 0.144        | 0.017        | 0.019        | 9.852        | 0.528        | 0.02         | <0.008       | 0.055        | <0.008       | 11.307       | 0.094        | 0.029        | 0.015        | 0.019        | 0.023         |               |               |  |  |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 15                  | 0.606        | 0.008        | 0.08         | 0.007        | 0.01         | 4.888        | 0.293        | 0.009        | <0.005       | 0.03         | <0.005       | 6.851        | 0.051        | 0.015        | 0.007        | 0.009        | 0.011         |               |               |  |  |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 15                  | 0.45         | 0.008        | 0.068        | 0.007        | 0.009        | 4.657        | 0.21         | 0.008        | <0.005       | 0.019        | <0.005       | 4.537        | 0.05         | 0.016        | 0.007        | 0.008        | 0.009         |               |               |  |  |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |                        |                      | 0                   | 0.099        | <0.005       | 0.014        | <0.005       | <0.005       | 1.065        | 0.044        | <0.005       | <0.005       | 0.007        | <0.005       | 0.887        | 0.011        | 0.005        | <0.005       | <0.005       | <0.005        |               |               |  |  |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 15                  | 0.399        | 0.007        | 0.064        | 0.006        | 0.01         | 4.301        | 0.201        | 0.007        | <0.005       | 0.017        | <0.005       | 3.882        | 0.044        | 0.012        | 0.007        | 0.008        | 0.009         |               |               |  |  |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 |                        |                      | 0                   | 6.382        | 0.322        | 13.343       | 3.848        | <0.173       | 42.538       | 5.46         | <0.173       | <0.173       | 3.067        | 1.608        | 106.639      | 0.465        | <0.173       | <0.173       | <0.173       | <0.173        |               |               |  |  |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | WFD                    | 0.00017              | 15                  | 0.816        | 0.013        | 0.104        | 0.012        | 0.014        | 7.093        | 0.38         | 0.014        | <0.008       | 0.04         | <0.008       | 8.141        | 0.068        | 0.021        | 0.011        | 0.014        | 0.017         |               |               |  |  |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | WFD                    | 0.00017              | 8                   | 0.318        | <0.008       | 0.04         | <0.008       | <0.008       | 2.759        | 0.148        | <0.008       | <0.008       | 0.015        | <0.008       | 3.166        | 0.026        | 0.008        | <0.008       | <0.008       | <0.008        |               |               |  |  |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |                        |                      | 0                   | 83           | 89           | 85           | 86           | 91           | 101          | 74           | 78           | 86           | 78           | 92           | 98           | 85           | 85           | 89           | 91           | 85            |               |               |  |  |
| VOC TICs                                | TM15/PM10               | None  |        |                        |                      | 0                   | ND           | NA           | ND           | NA           | ND           | ND           | ND           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | ND           | ND           | ND            |               |               |  |  |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   |                        |                      | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1         | <0.1         | NA            |               |               |  |  |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | WFD                    | 10                   | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5         | NA            |               |               |  |  |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | EQS                    | 74                   | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <5           | <5           | NA            |               |               |  |  |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     |                        |                      | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1           | NA            |               |               |  |  |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | EQS                    | 30                   | 0                   | <2           | <2           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2           | NA            |               |               |  |  |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | EQS                    | 30                   | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1           | NA            |               |               |  |  |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |                        |                      | 0                   | 100          | 92           | 96           | 98           | 102          | 97           | 98           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 103          | 104          | NA            |               |               |  |  |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |                        |                      | 0                   | 101          | 95           | 102          | 95           | 103          | 99           | 98           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 101          | 102          | NA            |               |               |  |  |
| TPH CWG                                 |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |  |
| Aliphatics                              |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |  |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     |                        | 10                   | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            |               |               |  |  |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        | 0                    | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | 450          | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        | 0                    | 0                   | 2490         | <10          | <10          | <10          | <10          | <10          | 270          | <10          | 610          | <10          | <10          | 660          | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| Total aliphatics C5-35 #                | TM5/PM36/PM12/PM16/PM30 | ug/l  | <10    |                        | 0                    | 0                   | 2490         | <10          | <10          | <10          | <10          | <10          | 270          | <10          | 610          | <10          | <10          | 1110         | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| Aromatics                               |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |  |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | WFD                    | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| >EC7-EC8 #                              | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           |               |               |  |  |
| >EC8                                    |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |  |



| Risks to Surface Water       |           |       |       | Sample ID                |        | BH2513              | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01         | SW02          | SW03          |               |  |
|------------------------------|-----------|-------|-------|--------------------------|--------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|--|
|                              |           |       |       | Depth                    |        | 4.64                | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |              |               |               |               |  |
|                              |           |       |       | Sample Type              |        | Ground Water        | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |  |
|                              |           |       |       | Sampled Date             |        | 28/02/2024          | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 26/02/2024    | 26/02/2024    |               |  |
|                              |           |       |       | Sample Received Date     |        | 29/02/2024          | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024    | 27/02/2024    |               |  |
| Test                         | Method    | Units | LOD   | GAC Source               | GAC SW | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| Nitrite as NO2 #             | TM38/PM0  | mg/l  | <0.02 |                          |        | 0                   | 0.06         | <0.02        | 0.03         | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | 0.04         | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | 0.33          | 0.43          | 0.52          |  |
| Ortho Phosphate as PO4 #     | TM38/PM0  | mg/l  | <0.06 |                          |        | 0                   | <0.06        | <0.06        | 1.33         | 0.2          | <0.06        | <0.06        | 0.17         | 0.12         | <0.06        | <0.06        | <0.06        | <0.06        | <0.06        | 0.13         | 0.41          | 0.49          | 0.55          |  |
| Total Cyanide #              | TM89/PM0  | mg/l  | <0.01 | EQS                      | 1      | 0                   | 0.01         | 0.03         | <0.01        | 0.01         | <0.01        | <0.01        | 0.02         | <0.01        | <0.01        | 0.01         | 0.01         | 0.04         | <0.01        | <0.01        | <0.01         | <0.01         | <0.01         |  |
| Ammoniacal Nitrogen as N #   | TM38/PM0  | mg/l  | <0.03 | EQS alkalinity dependent | 2.5    | 7                   | 0.9          | 7.55         | 3.08         | 12.96        | 0.09         | 0.37         | 16.73        | 0.75         | 0.86         | 6.43         | 5.97         | 5.03         | 0.21         | 0.06         | 0.22          | 0.29          | 0.36          |  |
| Hexavalent Chromium          | TM38/PM0  | ug/l  | <6    | EQS                      | 3.4    | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |  |
| Total Dissolved Chromium III | TM0/PM0   | ug/l  | <6    | EQS                      | 4.7    | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |  |
| Total Alkalinity as CaCO3 #  | TM75/PM0  | mg/l  | <1    |                          |        | 0                   | 582          | 934          | 360          | 744          | 168          | 406          | 728          | 406          | 480          | 838          | 808          | 588          | 436          | 452          | 230           | 234           | 246           |  |
| BTEX                         |           |       |       |                          |        |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| MTBE #                       | TM36/PM12 | ug/l  | <5    |                          |        | 0                   |              |              |              |              |              | NA           |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           |               |               | <5            |  |
| Benzene #                    | TM36/PM12 | ug/l  | <5    | EU S                     | 10     | 0                   |              |              |              |              |              | NA           |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           |               |               | <5            |  |
| Toluene #                    | TM36/PM12 | ug/l  | <5    | UK ES                    | 74     | 0                   |              |              |              |              |              | NA           |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           |               |               | <5            |  |
| Ethylbenzene #               | TM36/PM12 | ug/l  | <5    | OSPAR                    | 10     | 0                   |              |              |              |              |              | NA           |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           |               |               | <5            |  |
| m/p-Xylene #                 | TM36/PM12 | ug/l  | <5    |                          | 30     | 0                   |              |              |              |              |              | NA           |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           |               |               | <5            |  |
| o-Xylene #                   | TM36/PM12 | ug/l  | <5    |                          | 30     | 0                   |              |              |              |              |              | NA           |              | <5           | <5           | <5           | <5           | <5           | <5           | <5           |               |               | <5            |  |
| Phenols                      |           |       |       |                          |        |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| 2-Chlorophenol #             | TM16/PM30 | ug/l  | <0.5  | UK ES                    | 50     | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 2-Methylphenol #             | TM16/PM30 | ug/l  | <0.5  |                          |        | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | <0.5          |  |
| 2-Nitrophenol                | TM16/PM30 | ug/l  | <0.5  |                          |        | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | <0.5          |  |
| 2,4-Dichlorophenol #         | TM16/PM30 | ug/l  | <1    | UK ES                    | 4      | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | <0.5          |  |
| 2,4-Dimethylphenol           | TM16/PM30 | ug/l  | <0.5  |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 2,4,5-Trichlorophenol #      | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | <0.5          |  |
| 2,4,6-Trichlorophenol        | TM16/PM30 | ug/l  | <0.5  |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 4-Chloro-3-methylphenol #    | TM16/PM30 | ug/l  | <1    | UK ES                    | 40     | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | <0.5          |  |
| 4-Methylphenol               | TM16/PM30 | ug/l  | <10   |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 4-Nitrophenol                | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <10          | NA           | <10          | NA           | <10          | <10          | <10          | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <10           | <10           | <10           |  |
| Pentachlorophenol            | TM16/PM30 | ug/l  | <1    | ES S                     | 0.4    | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| Phenol                       | TM16/PM30 | ug/l  | <1    | UK ES                    | 7.7    | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| PAHs                         |           |       |       |                          |        |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| 2-Chloronaphthalene #        | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 2-Methylnaphthalene #        | TM16/PM30 | ug/l  |       |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| Phthalates                   |           |       |       |                          |        |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| Bis(2-ethylhexyl) phthalate  | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <5           | NA           | <5           | NA           | <5           | <5           | <5           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <5            | <5            | <5            |  |
| Butylbenzyl phthalate        | TM16/PM30 | ug/l  | <1.5  | UK ES                    | 7.5    | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| Di-n-butyl phthalate #       | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <1.5         | NA           | <1.5         | NA           | <1.5         | <1.5         | <1.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1.5          | <1.5          | <1.5          |  |
| Di-n-Octyl phthalate         | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| Diethyl phthalate #          | TM16/PM30 | ug/l  | <1    | UK ES                    | 200    | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| Dimethyl phthalate           | TM16/PM30 | ug/l  |       | UK ES                    | 800    | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| Other SVOCs                  |           |       |       |                          |        |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| 1,2-Dichlorobenzene #        | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 1,2,4-Trichlorobenzene #     | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 1,3-Dichlorobenzene #        | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 1,4-Dichlorobenzene #        | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 2-Nitroaniline               | TM16/PM30 | ug/l  | <0.5  |                          |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |  |
| 2,4-Dinitrotoluene #         | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | <0.5          |  |
| 2,6-Dinitrotoluene           | TM16/PM30 | ug/l  | <1    |                          |        | 0                   | <1           |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |

| Risks to Surface Water              |           |       |      | Sample ID            |        | BH2513              | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01         | SW02          | SW03          |               |
|-------------------------------------|-----------|-------|------|----------------------|--------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                     |           |       |      | Depth                |        | 4.64                | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |              |               |               |               |
|                                     |           |       |      | Sample Type          |        | Ground Water        | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                     |           |       |      | Sampled Date         |        | 28/02/2024          | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 26/02/2024    | 26/02/2024    |               |
|                                     |           |       |      | Sample Received Date |        | 29/02/2024          | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024    | 27/02/2024    |               |
| Test                                | Method    | Units | LOD  | GAC Source           | GAC SW | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Surrogate Recovery 2-Fluorobiphenyl | TM16/PM30 | %     | <0   |                      |        | 0                   | 93           | NA           | 85           | NA           | 112          | 72           | 96           | NA           | NA           | NA           | NA           | NA           | NA           | 126          | 118           | 120           |               |
| Surrogate Recovery p-Terphenyl-d14  | TM16/PM30 | %     |      |                      |        | 0                   | 100          | NA           | 109          | NA           | 138          | 96           | 110          | NA           | NA           | NA           | NA           | NA           | NA           | 145          | 145           | 129           |               |
| VOC MS                              |           |       |      |                      |        |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dichlorodifluoromethane             | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Methyl Tertiary Butyl Ether #       | TM15/PM10 | ug/l  | <0.1 |                      |        | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | <0.1         | <0.1          | <0.1          |               |
| Chloromethane #                     | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Vinyl Chloride #                    | TM15/PM10 | ug/l  | <0.1 |                      |        | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | <0.1         | <0.1          | <0.1          |               |
| Bromomethane                        | TM15/PM10 | ug/l  | <1   |                      |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Chloroethane #                      | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Trichlorofluoromethane #            | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,1-Dichloroethene (1,1 DCE) #      | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Dichloromethane (DCM) #             | TM15/PM10 | ug/l  | <3   | EU S                 | 20     | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| trans-1-2-Dichloroethene #          | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,1-Dichloroethane #                | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| cis-1-2-Dichloroethene #            | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 2,2-Dichloropropane                 | TM15/PM10 | ug/l  | <1   |                      |        | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| Bromochloromethane #                | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Chloroform #                        | TM15/PM10 | ug/l  | <2   | EU S                 | 2.5    | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,1,1-Trichloroethane #             | TM15/PM10 | ug/l  | <2   | UK ES                | 100    | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,1-Dichloropropene #               | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Carbon tetrachloride #              | TM15/PM10 | ug/l  | <2   | EU S                 | 12     | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,2-Dichloroethane #                | TM15/PM10 | ug/l  | <2   | EU S                 | 10     | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Benzene #                           | TM15/PM10 | ug/l  | <0.5 | EU S                 | 10     | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5          | <0.5          |               |
| Trichloroethene (TCE) #             | TM15/PM10 | ug/l  | <3   | EU S                 | 10     | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,2-Dichloropropane #               | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Dibromomethane #                    | TM15/PM10 | ug/l  | <3   |                      |        | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| Bromodichloromethane #              | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| cis-1-3-Dichloropropene             | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Toluene #                           | TM15/PM10 | ug/l  | <5   | UK ES                | 74     | 0                   | <5           | NA           | <5           | NA           | <5           | <5           | <5           | NA           | NA           | NA           | NA           | NA           | NA           | <5           | <5            | <5            |               |
| trans-1-3-Dichloropropene           | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,1,2-Trichloroethane #             | TM15/PM10 | ug/l  | <2   | UK ES                | 400    | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Tetrachloroethene (PCE) #           | TM15/PM10 | ug/l  | <3   | EU S                 | 10     | 0                   | <3           | NA           | <3           | NA           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | NA           | <3           | <3            | <3            |               |
| 1,3-Dichloropropane #               | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Dibromochloromethane #              | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,2-Dibromoethane #                 | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Chlorobenzene #                     | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| 1,1,1,2-Tetrachloroethane #         | TM15/PM10 | ug/l  | <2   |                      |        | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2            | <2            |               |
| Ethylbenzene #                      | TM15/PM10 | ug/l  | <1   | OSPAR                | 10     | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1            | <1            |               |
| m/p-Xylene #                        | TM15/PM10 | ug/l  | <2   |                      | 30     | 0                   | <2           | NA           | <2           | NA           | <2           | <2           | <2           | NA           | NA           |              |              |              |              |              |               |               |               |



| Risks to Surface Water      |            |       |       |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01          | SW02          | SW03          |  |
|-----------------------------|------------|-------|-------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|--|
|                             |            |       |       |            | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |               |               |               |  |
|                             |            |       |       |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |  |
|                             |            |       |       |            | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024    | 26/02/2024    | 26/02/2024    |  |
|                             |            |       |       |            | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |  |
| Test                        | Method     | Units | LOD   | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| Aldrin                      | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Alpha-HCH (BHC)             | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.30        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Beta-HCH (BHC)              | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Delta-HCH (BHC)             | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Dieldrin                    | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Endosulphan I               | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Endosulphan II              | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Endosulphan sulphate        | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Endrin                      | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Gamma-HCH (BHC)             | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Heptachlor                  | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Heptachlor Epoxide          | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| o,p'-Methoxychlor           | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.30        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| p,p'-DDE                    | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.30        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| p,p'-DDT                    | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.30        | NA           | <0.30        | NA           | <0.01        | <0.30        | <0.30        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.10         |  |
| p,p'-Methoxychlor           | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.30        | NA           | <0.30        | NA           | <0.01        | <0.30        | <0.30        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.10         |  |
| p,p'-TDE                    | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Organophosphorus Pesticides |            |       |       |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| Azinphos methyl             | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Diazinon                    | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Dichlorvos                  | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.30        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Disulfoton                  | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Ethion                      | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Ethyl Parathion (Parathion) | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Fenitrothion                | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Malathion                   | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Methyl Parathion            | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Mevinphos                   | TM149/PM30 | ug/l  | <0.01 |            |                      | 0                   | <0.03        | NA           | <0.03        | NA           | <0.01        | <0.03        | <0.03        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |  |
| Acid Herbicides             |            |       |       |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |
| Benazolin                   | TM42/PM30  | ug/l  | <0.1  |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |  |
| Bentazone                   | TM42/PM30  | ug/l  | <0.1  |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |  |
| Bromoxynil                  | TM42/PM30  | ug/l  | <0.1  |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |  |
| Clopyralid                  | TM42/PM30  | ug/l  | <0.1  |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |  |
| 4-CPA                       | TM42/PM30  | ug/l  | <0.1  |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |  |
| 2,4-D                       | TM42/PM30  | ug/l  | <0.1  |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |  |
| 2,4-DB                      | TM42/PM30  | ug/l  | <0.1  |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |  |
| Dicamba                     | TM42/PM30  | ug/l  | <0.1  |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |  |
| Dichloroprop                |            |       |       |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |  |

| Risks to Surface Water |             |       |          |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01          | SW02          | SW03          |
|------------------------|-------------|-------|----------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                        |             |       |          |            | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |               |               |               |
|                        |             |       |          |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                        |             |       |          |            | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024    | 26/02/2024    | 26/02/2024    |
|                        |             |       |          |            | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |
| Test                   | Method      | Units | LOD      | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFHpA                  | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFOA                   | TM135/PM121 | ug/l  | <0.05    |            | 0.1                  | 0                   | 0.06         | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFNA                   | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFDA                   | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFUnA                  | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFDoA                  | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFTrDA                 | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFTeDA                 | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFHxDA                 | TM135/PM121 | ug/l  | <0.1     |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFODA                  | TM135/PM121 | ug/l  | <0.1     |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFBS                   | TM135/PM121 | ug/l  | <0.05    |            | 3                    | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | 0.08         | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFPeS                  | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFHxS                  | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFHpS                  | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFOS                   | TM135/PM121 | ug/l  | <0.05    |            | 0.00065              | 2                   | 0.14         | NA           | <0.05        | NA           | <0.05        | 0.05         | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFNS                   | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFDS                   | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFUnDS                 | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFDoDS                 | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFTrDS                 | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| HFPO-DA (Gen X)        | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| HFPO-TA                | TM135/PM121 | ug/l  | <1       |            |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| DONA                   | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFMOPra                | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| NFDHA                  | TM135/PM121 | ug/l  | <0.1     |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFMOBA                 | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| PFECHS                 | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| 3:3 FTCA               | TM135/PM121 | ug/l  | <0.1     |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| 5:3 FTCA               | TM135/PM121 | ug/l  | <0.5     |            |                      | 0                   | <0.5         | NA           | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | <0.5          |
| 7:3 FTCA               | TM135/PM121 | ug/l  | <0.1     |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| PFEESA                 | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| 9Cl-PF3ONS             | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| 11Cl-PF3OUdS           | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| 4:2 FTS                | TM135/PM121 | ug/l  | <0.2     |            |                      | 0                   | <0.2         | NA           | <0.2         | NA           | <0.2         | <0.2         | <0.2         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.2          | <0.2          | <0.2          |
| 6:2 FTS                | TM135/PM121 | ug/l  | <0.2     |            |                      | 0                   | <0.2         | NA           | <0.2         | NA           | <0.2         | <0.2         | <0.2         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.2          | <0.2          | <0.2          |
| 8:2 FTS                | TM135/PM121 | ug/l  | <0.2     |            |                      | 0                   | <0.2         | NA           | <0.2         | NA           | <0.2         | <0.2         | <0.2         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.2          | <0.2          | <0.2          |
| FBSA                   | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| FHxSA                  | TM135/PM121 | ug/l  | <0.05    |            |                      | 0                   | <0.05        | NA           | <0.05        | NA           | <0.05        | <0.05        | <0.05        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.05         | <0.05         | <0.05         |
| FOSA                   | TM135/PM121 | ug/l  | <1       |            |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| N-MeFOSA               | TM135/PM121 | ug/l  | <1       |            |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| N-EtFOSA               | TM135/PM121 | ug/l  | <1       |            |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| Me-FOSE                | TM135/PM121 | ug/l  | <0.1     |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| Et-FOSE                | TM135/PM121 | ug/l  | <0.1     |            |                      | 0                   | <0.1         | NA           | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | <0.1          |
| N-MeFOSAA              | TM135/PM121 | ug/l  | <1       |            |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| N-EtFOSAA              | TM135/PM121 | ug/l  | <1       |            |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| 8:2diPAP               | TM135/PM121 | ug/l  | <0.2     |            |                      | 0                   | <0.2         | NA           | <0.2         | NA           | <0.2         | <0.2         | <0.2         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.2          | <0.2          | <0.2          |
| FOUEA                  | TM135/PM121 | ug/l  | <1       |            |                      | 0                   | <1           | NA           | <1           | NA           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | <1            |
| PFBA <sup>#</sup>      | TM135/PM122 | ug/l  | <0.001   |            | 7                    | 0                   | 0.005        | NA           | 0.007        | NA           | 0.002        | 0.006        | 0.078        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.005         | 0.006         | 0.003         |
| PFPeA <sup>#</sup>     | TM135/PM122 | ug/l  | <0.001   |            | 3                    | 0                   | 0.022        | NA           | 0.028        | NA           | <0.005       | 0.027        | 0.025        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.007         | 0.006         | 0.004         |
| PFHxA <sup>#</sup>     | TM135/PM122 | ug/l  | <0.001   |            | 1                    | 0                   | 0.018        | NA           | 0.022        | NA           | 0.005        | 0.022        | 0.027        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.007         | 0.006         | 0.004         |
| PFHpA <sup>#</sup>     | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | 0.013        | NA           | 0.013        | NA           | 0.003        | 0.007        | 0.011        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.004         | 0.003         | 0.002         |
| PFOA <sup>#</sup>      | TM135/PM122 | ug/l  | <0.00065 |            | 0.1                  | 0                   | 0.0393       | NA           | 0.0286       | NA           | 0.0071       | 0.0069       | 0.0338       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.0106        | 0.0089        | 0.0068        |
| PFNA <sup>#</sup>      | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | 0.003        | NA           | <0.001       | NA           | 0.001        | 0.001        | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |

| Risks to Surface Water |             |       |          |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01          | SW02          | SW03          |
|------------------------|-------------|-------|----------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                        |             |       |          |            | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |               |               |               |
|                        |             |       |          |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                        |             |       |          |            | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024    | 26/02/2024    | 26/02/2024    |
|                        |             |       |          |            | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |
| Test                   | Method      | Units | LOD      | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFDA #                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFUnA #                | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFDoA                  | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFTrDA                 | TM135/PM122 | ug/l  | <0.006   |            |                      | 0                   | <0.006       | NA           | <0.006       | NA           | <0.006       | <0.006       | <0.006       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.006        | <0.006        | <0.006        |
| PFTeDA                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFHxDA                 | TM135/PM122 | ug/l  | <0.01    |            |                      | 0                   | <0.01        | NA           | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |
| PFODA                  | TM135/PM122 | ug/l  | <0.025   |            |                      | 0                   | <0.025       | NA           | <0.025       | NA           | <0.025       | <0.025       | <0.025       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.025        | <0.025        | <0.025        |
| PFBS #                 | TM135/PM122 | ug/l  | <0.001   |            | 3                    | 0                   | 0.007        | NA           | 0.01         | NA           | 0.007        | 0.069        | 0.026        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.006         | 0.005         |
| PFPeS #                | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | 0.002        | NA           | 0.005        | NA           | <0.001       | <0.001       | 0.008        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFHxS #                | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | 0.021        | NA           | 0.029        | NA           | 0.004        | 0.005        | 0.042        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.005         | 0.004         |
| PFHpS #                | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | 0.001        | NA           | 0.001        | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFOS #                 | TM135/PM122 | ug/l  | <0.00065 |            | 0.00065              | 8                   | 0.0783       | NA           | 0.0186       | NA           | 0.0208       | 0.023        | 0.0296       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.0112        | 0.0134        | 0.0093        |
| PFNS                   | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFDS                   | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFUnDS                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFDoDS                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFTrDS                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| HFPO-DA (Gen X)        | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| HFPO-TA                | TM135/PM122 | ug/l  | <0.02    |            |                      | 0                   | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| DONA #                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFMOPra                | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 0.001         | <0.001        | <0.001        |
| NFDHA                  | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFMOBA                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| PFECHS                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | 0.003        | NA           | 0.002        | NA           | 0.001        | 0.001        | 0.023        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| 3:3 FTCA               | TM135/PM122 | ug/l  | <0.02    |            |                      | 0                   | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| 5:3 FTCA               | TM135/PM122 | ug/l  | <0.01    |            |                      | 0                   | <0.01        | NA           | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | <0.01         |
| 7:3 FTCA               | TM135/PM122 | ug/l  | <0.02    |            |                      | 0                   | <0.02        | NA           | <0.02        | NA           | <0.02        | <0.02        | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | <0.02         |
| PFEESA                 | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| 9CI-PF3ONS #           | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| 11CI-PF3OUdS           | TM135/PM122 | ug/l  | <0.001   |            |                      | 0                   | <0.001       | NA           | <0.001       | NA           | <0.001       | <0.001       | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | <0.001        |
| 4:2 FTS                | TM135/PM122 | ug/l  | <0.005   |            |                      | 0                   | <0.005       | NA           | <0.005       | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | <0.005        |
| 6:2 FTS                | TM135/PM122 | ug/l  | <0.005   |            |                      | 0                   | 0.012        | NA           | 0.018        | NA           | <0.005       | <0.005       | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           |              |               |               |               |

|                          |          |       |     |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
|--------------------------|----------|-------|-----|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
| Risks to Surface Water   |          |       |     |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01          | SW02          | SW03          |
|                          |          |       |     |            | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |               |               |               |
|                          |          |       |     |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                          |          |       |     |            | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024    | 26/02/2024    | 26/02/2024    |
|                          |          |       |     |            | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |
| Test                     | Method   | Units | LOD | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Total Dissolved Solids # | TM20/PM0 | mg/l  | <35 |            |                      | 0                   | 811          | NA           | 618          | NA           | 268          | 482          | 1413         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | NA            | NA            | NA            |

| Risks to Surface Water                  |                         |       |        |                        | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|-----------------------------------------|-------------------------|-------|--------|------------------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |                         |       |        |                        | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                         |                         |       |        |                        | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |                         |       |        |                        | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                         |                         |       |        |                        | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                    | Method                  | Units | LOD    | GAC Source             | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| Metals                                  |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   | EQS                    | 50                   | 0                   | 3.3          | 1.3          | 1.4          | 3.9          | 3.3          | 3            | 7.6          | 0.9           | 0.9           | <0.9          |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   |                        |                      |                     | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    | EQS                    | 2000                 | 0                   | 296          | 556          | 128          | 1873         | 107          | 122          | 1111         | 60            | 53            | 44            |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   | WFD hardness dependent | 0.25                 | 0                   | 0.04         | <0.03        | 0.03         | <0.03        | <0.03        | 0.04         | <0.03        | <0.03         | <0.03         | <0.03         |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   | EQS                    | 4.7                  | 0                   | 0.4          | 1            | 0.2          | 0.8          | 0.6          | 0.3          | 1.4          | 0.3           | 0.3           | 0.3           |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     | EQS bioavailable       | 6.81                 | 1                   | 9            | <1           | 2            | <1           | <1           | 4            | <1           | 2             | 2             | 2             |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    | EQS                    | 1000                 | 2                   | 920.8        | 2355.5       | 12.7         | 1619.6       | 177          | 48.7         | 30           | 32.6          | 28            | 26.4          |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | WFD bioavailable       | 1.2                  | 0                   | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | 0.8          | <0.4         | <0.4          | <0.4          | <0.4          |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     | WFD                    | 0.07                 | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     | WFD bioavailable       | 16.31                | 0                   | 4.4          | 1.8          | 3.1          | 2.6          | 2.2          | 6.1          | 1.7          | 2             | 1.7           | 1.5           |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     |                        |                      |                     | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2          | <1.2          | <1.2          |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   | EQS hardness dependent | 60                   | 0                   | 3.3          | 2.4          | 3.3          | 3.6          | 5.5          | 4.6          | 6.1          | 1.7           | 1.6           | 1.7           |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     | EQS bioavailable       | 30.47                | 0                   | 8            | 2.2          | 4.5          | 2.3          | 3.8          | 19.5         | 2.5          | 6.3           | 6.4           | 5.8           |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |                        |                      |                     | 799          | 1219         | 352          | 646          | 214          | 289          | 918          | 277           | 286           | 287           |
| PAH MS                                  |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Naphthalene #                           | TM4/PM30                | ug/l  | <0.1   | WFD                    | 2                    | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1          | <0.1          | <0.1          |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | <0.005       | 0.007        | 0.01         | 0.031        | 0.007        | 0.044        | 0.022        | <0.005        | <0.005        | <0.005        |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | 0.011        | 0.162        | 0.258        | 2.432        | 0.007        | 0.022        | 1.578        | <0.005        | <0.005        | <0.005        |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | <0.005       | 0.021        | 0.048        | 0.422        | <0.005       | 0.006        | 0.212        | <0.005        | <0.005        | <0.005        |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | <0.005       | 0.012        | <0.005       | 0.03         | <0.005       | 0.054        | 0.012        | <0.005        | <0.005        | <0.005        |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.1                  |                     | 0.011        | 0.011        | 0.006        | 0.079        | 0.031        | 0.078        | 0.027        | <0.005        | <0.005        | <0.005        |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.0063               | 9                   | 0.011        | 0.019        | 0.017        | 0.186        | <0.005       | 0.267        | 0.019        | 0.012         | 0.007         | 0.008         |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | 0.011        | 0.015        | 0.01         | 0.119        | <0.005       | 0.292        | 0.012        | 0.012         | 0.007         | 0.009         |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | <0.005       | <0.005       | <0.005       | 0.009        | <0.005       | 0.167        | <0.005       | <0.005        | <0.005        | <0.005        |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | <0.005       | <0.005       | <0.005       | 0.008        | <0.005       | 0.202        | <0.005       | <0.005        | <0.005        | <0.005        |
| Benzo(bk)fluoranthene #                 | TM4/PM30                | ug/l  | <0.008 |                        |                      |                     | 0.015        | <0.008       | <0.008       | <0.008       | <0.008       | 0.574        | <0.008       | 0.012         | <0.008        | <0.008        |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 3                   | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       | 0.328        | <0.005       | 0.006         | <0.005        | <0.005        |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 3                   | 0.007        | <0.005       | <0.005       | <0.005       | <0.005       | 0.276        | <0.005       | 0.006         | <0.005        | <0.005        |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.056        | <0.005       | <0.005        | <0.005        | <0.005        |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 3                   | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       | 0.278        | <0.005       | 0.006         | <0.005        | <0.005        |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 |                        |                      |                     | <0.173       | 0.247        | 0.349        | 3.316        | <0.173       | 2.644        | 1.882        | <0.173        | <0.173        | <0.173        |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | WFD                    | 0.00017              | 3                   | 0.011        | <0.008       | <0.008       | <0.008       | <0.008       | 0.413        | <0.008       | 0.009         | <0.008        | <0.008        |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | WFD                    | 0.00017              | 1                   | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.161        | <0.008       | <0.008        | <0.008        | <0.008        |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |                        |                      |                     | 76           | 74           | 80           | 85           | 105          | 90           | 79           | 90            | 89            | 85            |
| VOC TICs                                | TM15/PM10               | None  |        |                        |                      |                     | ND           | NA           | ND           | ND           | ND           | NA           | ND           | ND            | ND            | NA            |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   |                        |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | WFD                    | 10                   | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | EQS                    | 74                   | 0                   | <5           | NA           | <5           | <5           | <5           | NA           | <5           | <5            | <5            | NA            |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     |                        |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | EQS                    | 30                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | EQS                    | 30                   | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |                        |                      |                     | 89           | NA           | 101          | 96           | 95           | NA           | 97           | 91            | 97            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |                        |                      |                     | 92           | NA           | 96           | 92           | 94           | NA           | 93           | 89            | 93            | NA            |
| TPH CWG                                 |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Aliphatics                              |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |               |               |               |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     |                        | 10                   | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                        |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Aromatics                               |                         |       |        |                        |                      |                     |              |              |              |              |              |              |              |               |               |               |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | WFD                    | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |

| Risks to Surface Water                  |                         |       |       |                          | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|-----------------------------------------|-------------------------|-------|-------|--------------------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |                         |       |       |                          | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                         |                         |       |       |                          | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |                         |       |       |                          | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                         |                         |       |       |                          | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                    | Method                  | Units | LOD   | GAC Source               | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| >EC7-EC8 #                              | TM36/PM12               | ug/l  | <10   |                          | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC8-EC10 #                             | TM36/PM12               | ug/l  | <10   |                          | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC10-EC12 #                            | TM5/PM16/PM30           | ug/l  | <5    |                          | 10                   | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >EC12-EC16 #                            | TM5/PM16/PM30           | ug/l  | <10   |                          | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC16-EC21 #                            | TM5/PM16/PM30           | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC21-EC35 #                            | TM5/PM16/PM30           | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aromatics C5-35 #                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics and aromatics(C5-35) # | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total Phenols HPLC                      | TM26/PM0                | mg/l  | <0.15 | EQS                      | 0.0077               | 0                   | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15         | <0.15         | <0.15         |
|                                         |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Sulphate as SO4 #                       | TM89/PM0                | mg/l  | <0.5  | EQS                      | 400                  | 0                   | 179.3        | 187.4        | 95.6         | 146.3        | 89.8         | 77.9         | 159.4        | 45.9          | 40            | 37.5          |
| Chloride #                              | TM38/PM0                | mg/l  | <0.3  | EQS                      | 250                  | 0                   | 13.1         | 33.9         | 45.9         | 130.3        | 22           | 25.3         | 58.1         | 46.1          | 45.8          | 45.7          |
| Nitrate as NO3 #                        | TM38/PM0                | mg/l  | <0.2  |                          |                      | 0                   | 8.9          | <0.2         | 16.2         | <0.2         | 0.4          | 0.5          | <0.2         | 19.3          | 22.1          | 25.2          |
| Nitrite as NO2 #                        | TM38/PM0                | mg/l  | <0.02 |                          |                      | 0                   | 0.05         | <0.02        | 0.25         | <0.02        | 0.7          | <0.02        | <0.02        | 0.06          | 0.07          | 0.1           |
| Ortho Phosphate as PO4 #                | TM38/PM0                | mg/l  | <0.06 |                          |                      | 0                   | <0.06        | 0.3          | 0.63         | 0.14         | 0.08         | 0.13         | 1.51         | 0.52          | 0.57          | 0.59          |
| Total Cyanide #                         | TM89/PM0                | mg/l  | <0.01 | EQS                      | 1                    | 0                   | 0.02         | 0.03         | <0.01        | 0.03         | 0.02         | 0.03         | 0.02         | <0.01         | <0.01         | <0.01         |
| Ammoniacal Nitrogen as N #              | TM38/PM0                | mg/l  | <0.03 | EQS alkalinity dependent | 2.5                  | 3                   | 0.72         | 7.86         | 0.41         | 12.96        | 1.72         | 0.1          | 17.97        | 0.04          | 0.04          | 0.05          |
| Hexavalent Chromium                     | TM38/PM0                | ug/l  | <6    | EQS                      | 3.4                  | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Dissolved Chromium III            | TM0/PM0                 | ug/l  | <6    | EQS                      | 4.7                  | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Alkalinity as CaCO3 #             | TM75/PM0                | mg/l  | <1    |                          |                      |                     | 592          | 830          | 298          | 674          | 162          | 266          | 842          | 248           | 264           | 262           |
| BTEX                                    |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |               |               |               |
| MTBE #                                  | TM36/PM12               | ug/l  | <5    |                          |                      |                     | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Benzene #                               | TM36/PM12               | ug/l  | <5    | EU S                     | 10                   | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Toluene #                               | TM36/PM12               | ug/l  | <5    | UK ES                    | 74                   | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Ethylbenzene #                          | TM36/PM12               | ug/l  | <5    | OSPAR                    | 10                   | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| m/p-Xylene #                            | TM36/PM12               | ug/l  | <5    |                          | 30                   | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| o-Xylene #                              | TM36/PM12               | ug/l  | <5    |                          | 30                   | 0                   | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Phenols                                 |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |               |               |               |
| 2-Chlorophenol #                        | TM16/PM30               | ug/l  | <0.5  | UK ES                    | 50                   | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Methylphenol #                        | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2-Nitrophenol                           | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,4-Dichlorophenol #                    | TM16/PM30               | ug/l  | <1    | UK ES                    | 4                    | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,4-Dimethylphenol                      | TM16/PM30               | ug/l  | <0.5  |                          |                      | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2,4,5-Trichlorophenol #                 | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,4,6-Trichlorophenol                   | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Chloro-3-methylphenol #               | TM16/PM30               | ug/l  | <1    | UK ES                    | 40                   | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 4-Methylphenol                          | TM16/PM30               | ug/l  | <10   |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Nitrophenol                           | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <10          | NA           | <10          | <10          | <10          | NA           | <10          | <10           | <10           | NA            |
| Pentachlorophenol                       | TM16/PM30               | ug/l  | <1    | ES S                     | 0.4                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Phenol                                  | TM16/PM30               | ug/l  |       | UK ES                    | 7.7                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| PAHS                                    |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |               |               |               |
| 2-Chloronaphthalene #                   | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Methylnaphthalene #                   | TM16/PM30               | ug/l  |       |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Phthalates                              |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Bis(2-ethylhexyl) phthalate             | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <5           | NA           | <5           | <5           | <5           | NA           | <5           | <5            | <5            | NA            |
| Butylbenzyl phthalate                   | TM16/PM30               | ug/l  | <1.5  | UK ES                    | 7.5                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Di-n-butyl phthalate #                  | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1.5         | NA           | <1.5         | <1.5         | <1.5         | NA           | <1.5         | <1.5          | <1.5          | NA            |
| Di-n-Octyl phthalate                    | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Diethyl phthalate #                     | TM16/PM30               | ug/l  | <1    | UK ES                    | 200                  | 0                   | 1            | NA           | <1           | <1           | <1           | NA           | 2            | <1            | <1            | NA            |
| Dimethyl phthalate                      | TM16/PM30               | ug/l  |       | UK ES                    | 800                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Other SVOCs                             |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |               |               |               |
| 1,2-Dichlorobenzene #                   | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 1,2,4-Trichlorobenzene #                | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 1,3-Dichlorobenzene #                   | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |



| Risks to Surface Water              |           |       |      |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|-------------------------------------|-----------|-------|------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                     |           |       |      |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                     |           |       |      |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                     |           |       |      |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                     |           |       |      |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                | Method    | Units | LOD  | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dichlorobenzene #               | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Nitroaniline                      | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2,4-Dinitrotoluene #                | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,6-Dinitrotoluene                  | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 3-Nitroaniline                      | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Bromophenylphenylether #          | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Chloroaniline                     | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Chlorophenylphenylether #         | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Nitroaniline                      | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Azobenzene #                        | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Bis(2-chloroethoxy)methane #        | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Bis(2-chloroethyl)ether #           | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Carbazole #                         | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Dibenzofuran #                      | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Hexachlorobenzene #                 | TM16/PM30 | ug/l  | <1   | ES S       | 0.05                 | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachlorobutadiene #               | TM16/PM30 | ug/l  | <1   | ES S       | 0.6                  | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachlorocyclopentadiene           | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachloroethane #                  | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Isophorone #                        | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| N-nitrosodi-n-propylamine #         | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Nitrobenzene #                      | TM16/PM30 | ug/l  | <0   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Surrogate Recovery 2-Fluorobiphenyl | TM16/PM30 | %     | <0   |            |                      |                     | 127          | NA           | 104          | 129          | 97           | NA           | 113          | 127           | 124           | NA            |
| Surrogate Recovery p-Terphenyl-d14  | TM16/PM30 | %     |      |            |                      |                     | 129          | NA           | 109          | 131          | 104          | NA           | 120          | 128           | 127           | NA            |
| VOC MS                              |           |       |      |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| 1,1,1,2-Tetrachloroethane #         | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1,1-Trichloroethane #             | TM15/PM10 | ug/l  | <2   | UK ES      | 100                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1,2,2-Tetrachloroethane           | TM15/PM10 | ug/l  | <4   |            |                      |                     | <4           | NA           | <4           | <4           | <4           | NA           | <4           | <4            | <4            | NA            |
| 1,1,2-Trichloroethane #             | TM15/PM10 | ug/l  | <2   | UK ES      | 400                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1-Dichloroethane #                | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,1-Dichloroethene (1,1 DCE) #      | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,1-Dichloropropene #               | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,3-Trichlorobenzene              | TM15/PM10 | ug/l  | <3   | EU S       | 0.4                  | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,3-Trichloropropane #            | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,4-Trichlorobenzene              | TM15/PM10 | ug/l  | <3   | EU S       | 0.4                  | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,4-Trimethylbenzene #            | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2-Dibromo-3-chloropropane         | TM15/PM10 | ug/l  | <2   |            |                      | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2-Dibromoethane #                 | TM15/PM10 | ug/l  | <2   |            |                      | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2-Dichlorobenzene #               | TM15/PM10 | ug/l  | <3   |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2-Dichloroethane #                | TM15/PM10 | ug/l  | <2   | EU S       | 10                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2-Dichloropropane #               | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,3,5-Trimethylbenzene #            | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,3-Dichlorobenzene #               | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,3-Dichloropropane #               | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,4-Dichlorobenzene #               | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 2,2-Dichloropropane                 | TM15/PM10 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Chlorotoluene #                   | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 4-Chlorotoluene #                   | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 4-Isopropyltoluene #                | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Benzene #                           | TM15/PM10 | ug/l  | <0.5 | EU S       | 10                   | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Bromobenzene #                      | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Bromochloromethane #                | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Bromodichloromethane #              | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Bromoform #                         | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Bromomethane                        | TM15/PM10 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Carbon tetrachloride #              | TM15/PM10 | ug/l  | <2   | EU S       | 12                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |

| Risks to Surface Water                   |            |       |       |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|------------------------------------------|------------|-------|-------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                          |            |       |       |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                          |            |       |       |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                          |            |       |       |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                          |            |       |       |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                     | Method     | Units | LOD   | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| Chlorobenzene <sup>#</sup>               | TM15/PM10  | ug/l  | <2    |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Chloroethane <sup>#</sup>                | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | 5            | <3           | NA           | <3           | <3            | <3            | NA            |
| Chloroform <sup>#</sup>                  | TM15/PM10  | ug/l  | <2    | EU S       | 2.5                  | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Chloromethane <sup>#</sup>               | TM15/PM10  | ug/l  | <3    |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| cis-1-2-Dichloroethene <sup>#</sup>      | TM15/PM10  | ug/l  | <3    |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| cis-1-3-Dichloropropene                  | TM15/PM10  | ug/l  | <2    |            |                      | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Dibromochloromethane <sup>#</sup>        | TM15/PM10  | ug/l  | <2    |            |                      | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Dibromomethane <sup>#</sup>              | TM15/PM10  | ug/l  | <3    |            |                      | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Dichlorodifluoromethane                  | TM15/PM10  | ug/l  | <2    |            |                      | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Dichloromethane (DCM) <sup>#</sup>       | TM15/PM10  | ug/l  | <3    | EU S       | 20                   | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Ethylbenzene <sup>#</sup>                | TM15/PM10  | ug/l  | <1    | OSPAR      | 10                   | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachlorobutadiene                      | TM15/PM10  | ug/l  | <3    | EU S       | 0.5                  | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Isopropylbenzene <sup>#</sup>            | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| m/p-Xylene <sup>#</sup>                  | TM15/PM10  | ug/l  | <2    |            | 30                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Methyl Tertiary Butyl Ether <sup>#</sup> | TM15/PM10  | ug/l  | <0.1  |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Naphthalene                              | TM15/PM10  | ug/l  | <2    | WFD        | 2                    | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| n-Butylbenzene <sup>#</sup>              | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| o-Xylene <sup>#</sup>                    | TM15/PM10  | ug/l  | <1    |            | 30                   | 0                   | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Propylbenzene <sup>#</sup>               | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| sec-Butylbenzene <sup>#</sup>            | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Styrene                                  | TM15/PM10  | ug/l  | <2    | UK ES      | 50                   | 0                   | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene  | TM15/PM10  | %     | <0    |            |                      |                     | 92           | NA           | 96           | 92           | 94           | NA           | 93           | 89            | 93            | NA            |
| Surrogate Recovery Toluene D8            | TM15/PM10  | %     | <0    |            |                      |                     | 89           | NA           | 101          | 96           | 95           | NA           | 97           | 91            | 97            | NA            |
| tert-Butylbenzene <sup>#</sup>           | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Tetrachloroethene (PCE) <sup>#</sup>     | TM15/PM10  | ug/l  | <3    | EU S       | 10                   | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Toluene <sup>#</sup>                     | TM15/PM10  | ug/l  | <5    | UK ES      | 74                   | 0                   | <5           | NA           | <5           | <5           | <5           | NA           | <5           | <5            | <5            | NA            |
| trans-1-2-Dichloroethene <sup>#</sup>    | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| trans-1-3-Dichloropropene                | TM15/PM10  | ug/l  | <2    |            |                      |                     | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Trichloroethene (TCE) <sup>#</sup>       | TM15/PM10  | ug/l  | <3    | EU S       | 10                   | 0                   | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Trichlorofluoromethane <sup>#</sup>      | TM15/PM10  | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Vinyl Chloride <sup>#</sup>              | TM15/PM10  | ug/l  | <0.1  | UK ES      | 0.25                 | 0                   | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
|                                          |            |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| SVOC TICs                                | TM16/PM30  | None  |       |            |                      |                     | ND           | NA           | ND           | ND           | ND           | NA           | ND           | ND            | ND            | NA            |
| Cyclic octaatomic sulfur                 | TM16/PM30  | ug/l  | <100  |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Pesticides                               |            |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Organochlorine Pesticides                |            |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Aldrin                                   | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Alpha-HCH (BHC)                          | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Beta-HCH (BHC)                           | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Delta-HCH (BHC)                          | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Dieldrin                                 | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan I                            | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan II                           | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan sulphate                     | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endrin                                   | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Gamma-HCH (BHC)                          | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | 0.02         | NA           | 0.02         | 0.02         | <0.01        | NA           | 0.04         | <0.01         | <0.01         | NA            |
| Heptachlor                               | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Heptachlor Epoxide                       | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| o,p'-Methoxychlor                        | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-DDE                                 | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| p,p'-DDT                                 | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-Methoxychlor                        | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-TDE                                 | TM149/PM30 | ug/l  | <0.01 |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Organophosphorus Pesticides              |            |       |       |            |                      |                     |              |              |              |              |              |              |              |               |               |               |



| Risks to Surface Water      |             |       |          |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|-----------------------------|-------------|-------|----------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                             |             |       |          |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                             |             |       |          |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                             |             |       |          |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                             |             |       |          |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                        | Method      | Units | LOD      | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| Azinphos methyl             | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| Diazinon                    | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Dichlorvos                  | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Disulfoton                  | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Ethion                      | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Ethyl Parathion (Parathion) | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Fenitrothion                | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Malathion                   | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Methyl Parathion            | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Mevinphos                   | TM149/PM30  | ug/l  | <0.01    |            |                      |                     | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Acid Herbicides             |             |       |          |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| Benazolin                   | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Bentazone                   | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Bromoxynil                  | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Clopyralid                  | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 4-CPA                       | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4-D                       | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4-DB                      | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Dicamba                     | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Dichloroprop                | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Diclofop                    | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Fenoprop                    | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Flamprop                    | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Flamprop-isopropyl          | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Ioxynil                     | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| MCPA                        | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| MCPB                        | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Mecoprop                    | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Picloram                    | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Pentachlorophenol           | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4,5-T                     | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,3,6-TBA                   | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Triclopyr                   | TM42/PM30   | ug/l  | <0.1     |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| PFAAS                       |             |       |          |            |                      |                     |              |              |              |              |              |              |              |               |               |               |
| PFBA #                      | TM135/PM122 | ug/l  | <0.001   |            | 7                    | 0                   | 0.009        | NA           | 0.009        | 0.096        | <0.010       | NA           | 0.069        | 0.009         | 0.006         | NA            |
| PFPeA #                     | TM135/PM122 | ug/l  | <0.001   |            | 3                    | 0                   | 0.03         | NA           | 0.013        | 0.022        | <0.010       | NA           | 0.017        | 0.006         | 0.005         | NA            |
| PFHxA #                     | TM135/PM122 | ug/l  | <0.001   |            | 1                    | 0                   | 0.023        | NA           | 0.012        | 0.036        | 0.021        | NA           | 0.029        | 0.005         | 0.005         | NA            |
| PFHpA #                     | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | 0.013        | NA           | <0.005       | 0.017        | <0.010       | NA           | 0.011        | 0.002         | 0.002         | NA            |
| PFOA #                      | TM135/PM122 | ug/l  | <0.00065 |            | 0.1                  | 0                   | 0.037        | NA           | 0.0159       | 0.0616       | 0.0251       | NA           | 0.0338       | 0.0081        | 0.0059        | NA            |
| PFNA #                      | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | 0.002        | NA           | <0.005       | <0.005       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDA #                      | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFUnA #                     | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDaA                       | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |

| Risks to Surface Water |                |       |          |           | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|------------------------|----------------|-------|----------|-----------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                        |                |       |          |           | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                        |                |       |          |           | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                        |                |       |          |           | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                        |                |       |          |           | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                   | Method         | Units | LOD      | AC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| PFTrDA                 | TM135/PM122    | ug/l  | <0.006   |           |                      |                     | <0.006       | NA           | <0.030       | <0.006       | <0.060       | NA           | <0.006       | <0.006        | <0.006        | NA            |
| PFTeDA                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFHxDA                 | TM135/PM122    | ug/l  | <0.01    |           |                      |                     | <0.01        | NA           | <0.05        | <0.01        | <0.10        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| PFODA                  | TM135/PM122    | ug/l  | <0.025   |           |                      |                     | <0.025       | NA           | <0.125       | <0.025       | <0.250       | NA           | <0.025       | <0.025        | <0.025        | NA            |
| PFBS #                 | TM135/PM122    | ug/l  | <0.001   |           | 3                    | 0                   | 0.007        | NA           | 0.008        | 0.024        | 0.033        | NA           | 0.018        | 0.006         | 0.006         | NA            |
| PFPeS #                | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | 0.002        | NA           | <0.005       | 0.009        | <0.010       | NA           | 0.006        | <0.001        | <0.001        | NA            |
| PFHxS #                | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | 0.023        | NA           | 0.012        | 0.067        | 0.014        | NA           | 0.044        | 0.005         | 0.004         | NA            |
| PFHpS #                | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | 0.002        | NA           | <0.005       | 0.014        | <0.010       | NA           | 0.001        | <0.001        | <0.001        | NA            |
| PFOS #                 | TM135/PM122    | ug/l  | <0.00065 |           | 0.00065              | 7                   | 0.0576       | NA           | 0.0184       | 0.0269       | 0.0598       | NA           | 0.0291       | 0.009         | 0.0108        | NA            |
| PFNS                   | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDS                   | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFUnDS                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDoDS                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFTrDS                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| HFPO-DA (Gen X)        | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| HFPO-TA                | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| DONA #                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFMOPrA                | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.010       | NA           | <0.005       | <0.010       | <0.010       | NA           | <0.010       | <0.010        | <0.010        | NA            |
| NFDHA                  | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.005       | <0.001        | <0.001        | NA            |
| PFMOBA                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.010       | NA           | <0.005       | <0.010       | <0.010       | NA           | <0.010       | <0.010        | <0.010        | NA            |
| PFECHS                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | 0.003        | NA           | <0.005       | 0.118        | <0.010       | NA           | 0.026        | <0.001        | <0.001        | NA            |
| 3:3 FTCA               | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| 5:3 FTCA               | TM135/PM122    | ug/l  | <0.01    |           |                      |                     | <0.01        | NA           | <0.05        | <0.01        | <0.10        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| 7:3 FTCA               | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| PFEESA                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 9CI-PF3ONS #           | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 11CI-PF3OUdS           | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 4:2 FTS                | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| 6:2 FTS                | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| 8:2 FTS                | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| FBSA                   | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| FHxSA                  | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| FOSA                   | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-MeFOSA               | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-EtFOSA               | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| Me-FOSE                | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| Et-FOSE                | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| N-MeFOSAA              | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-EtFOSAA              | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | 0.027        | <0.005        | <0.005        | NA            |
| 8:2diPAP               | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| FOUEA                  | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
|                        |                |       |          |           |                      |                     |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dioxane*           | Subcontracted/ | ug/l  | <0.07    | EQS       | 0.46                 | 2                   | <0.35        | 45.7         | <0.56        | 46.5         | <0.56        |              | <0.77        | <0.35         |               |               |

| Risks to Surface Water         |           |          |        |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------|-----------|----------|--------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                |           |          |        |            | Depth                |                     | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                |           |          |        |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                |           |          |        |            | Sampled Date         |                     | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                |           |          |        |            | Sample Received Date |                     | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                           | Method    | Units    | LOD    | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |               |               |               |
| BOD (Settled) #                | TM58/PM0  | mg/l     | <1     |            |                      | 0                   | <2           | 11           | <2           | <8           | <3           | <2           | 33           | <2            | <2            | 2             |
| COD (Settled) #                | TM57/PM0  | mg/l     | <7     |            |                      | 0                   | 56           | 72           | 11           | 109          | 38           | 19           | 99           | 23            | 20            | 16            |
| Dissolved Oxygen               | TM58/PM0  | mg/l     | <1     |            |                      | 0                   |              |              |              |              |              |              |              |               |               |               |
| Dissolved Organic Carbon #     | TM60/PM0  | mg/l     | <2     |            |                      | 0                   | 14           | 19           | 3            | 31           | 11           | 7            | 27           | 3             | 3             | 3             |
| Electrical Conductivity @25C # | TM76/PM0  | uS/cm    | <2     |            |                      | 0                   |              |              |              |              |              |              |              |               |               |               |
| Free Ammonia as NH3            | TM176/PM0 | mg/l     | <0.007 |            |                      | 0                   | <0.007       | 0.111        | <0.007       | 0.33         | 0.017        | <0.007       | 0.212        | <0.007        | <0.007        | <0.007        |
| pH #                           | TM73/PM0  | pH units | <0.01  |            |                      | 0                   | 7.85         | 7.64         | 7.35         | 7.99         | 7.16         | 7.39         | 7.89         | 7.77          | 7.85          | 7.85          |
| Total Dissolved Solids #       | TM20/PM0  | mg/l     | <35    |            |                      | 0                   |              |              |              |              |              |              |              |               |               |               |

| Risks to Surface Water              |           |       |        |                        | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-------------------------------------|-----------|-------|--------|------------------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                     |           |       |        |                        | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                     |           |       |        |                        | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                     |           |       |        |                        | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                     |           |       |        |                        | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                | Method    | Units | LOD    | GAC Source             | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Metals                              |           |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dissolved Arsenic #                 | TM30/PM14 | ug/l  | <2.5   | EQS                    | 50                   | 1                   | 8.1          | 6.8          | 1.2          | 6.4          | 8.6          | 2.6          | 2.9          | 51.9         | 17.3         | <0.9         | <0.9         | 4.4          | 1.1           | 1.2           | 1.1           |
| Dissolved Beryllium                 | TM30/PM14 | ug/l  | <0.5   |                        |                      |                     | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Boron                     | TM30/PM14 | ug/l  | <12    | EQS                    | 2000                 | 0                   | 1060         | 957          | 83           | 1954         | 151          | 142          | 1455         | 81           | 226          | 405          | 445          | 477          | 58            | 48            | 48            |
| Dissolved Cadmium #                 | TM30/PM14 | ug/l  | <0.5   | WFD hardness dependent | 0.25                 | 0                   | <0.03        | <0.03        | 0.03         | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03         | <0.03         | <0.03         |
| Total Dissolved Chromium #          | TM30/PM14 | ug/l  | <1.5   | EQS                    | 4.7                  | 0                   | 1.3          | 0.9          | <0.2         | 0.4          | 0.6          | 0.3          | 1.3          | 0.4          | 0.6          | 0.7          | 0.8          | 0.8          | 0.3           | 0.2           | 0.2           |
| Dissolved Copper #                  | TM30/PM14 | ug/l  | <7     | EQS bioavailable       | 6.81                 | 1                   | <1           | <1           | 2            | <3           | 6            | 7            | <3           | <1           | <1           | <1           | <1           | <3           | 3             | 2             | 2             |
| Total Dissolved Iron #              | TM30/PM14 | ug/l  | <20    | EQS                    | 1000                 | 6                   | 8513.4       | 5239.2       | 29.4         | <0.4         | 428.8        | 97.3         | <3           | 30062.7      | 7925.2       | 18239.6      | 14861        | <3           | 28.9          | 24.3          | 26.4          |
| Dissolved Lead #                    | TM30/PM14 | ug/l  | <5     | WFD bioavailable       | 1.2                  | 0                   | <0.4         | <0.4         | <0.4         | <0.4         | 0.8          | 0.7          | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4          | <0.4          | <0.4          |
| Dissolved Mercury #                 | TM30/PM14 | ug/l  | <1     | WFD                    | 0.07                 | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Nickel #                  | TM30/PM14 | ug/l  | <2     | WFD bioavailable       | 16.31                | 0                   | 3.5          | 1.6          | 3.5          | 3.7          | 4.2          | 6.7          | 0.7          | 1.3          | 2.7          | 0.7          | 2.5          | 2.2          | 1.7           | 1.6           | 1.9           |
| Dissolved Selenium #                | TM30/PM14 | ug/l  | <3     |                        |                      |                     | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | 1.3          | <1.2         | <1.2         | <1.2         | <1.2         | <1.2          | <1.2          | <1.2          |
| Dissolved Vanadium #                | TM30/PM14 | ug/l  | <1.5   | EQS hardness dependent | 60                   | 0                   | 5.2          | 2.5          | 4.1          | 2.7          | 9.4          | 9.4          | 6.1          | 1.5          | 2.9          | 0.7          | 1            | 2.1          | 1.9           | 1.9           | 1.8           |
| Dissolved Zinc #                    | TM30/PM14 | ug/l  | <3     | EQS bioavailable       | 30.47                | 0                   | 4.8          | 2.8          | 4.4          | 4.3          | 5.9          | 15.6         | 3.5          | 2.4          | 5.5          | 3.7          | 3            | 8            | 9.9           | 7.4           | 8.1           |
| Total Hardness Dissolved (as CaCO3) | TM30/PM14 | mg/l  | <1     |                        |                      |                     | 1168         | 1043         | 330          | 611          | 330          | 293          | 1169         | 795          | 858          | 1027         | 789          | 934          | 251           | 257           | 263           |
| PAH MS                              |           |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Naphthalene #                       | TM4/PM30  | ug/l  | <0.1   | WFD                    | 2                    | 1                   | <0.1         | 19.9         | <0.1         | <0.1         | <0.1         | <0.1         |              | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1          | <0.1          | <0.1          |
| Acenaphthylene #                    | TM4/PM30  | ug/l  | <0.005 |                        |                      |                     | <0.005       | <0.005       | <0.005       | 0.02         | 0.007        | 0.035        | <0.1         | <0.005       | <0.005       | <0.005       | <0.005       | 0.035        | <0.005        | <0.005        | <0.005        |
| Acenaphthene #                      | TM4/PM30  | ug/l  | <0.005 |                        |                      |                     | 0.103        | 2.543        | 0.303        | 0.929        | <0.005       | 0.208        | 0.039        | 0.008        | 0.008        | 1.013        | 0.925        | 1.199        | <0.005        | <0.005        | <0.005        |
| Fluorene #                          | TM4/PM30  | ug/l  | <0.005 |                        |                      |                     | <0.005       | 1.227        | 0.105        | 0.073        | <0.005       | 0.061        | 1.416        | 0.008        | 0.009        | 0.853        | 0.61         | 0.261        | <0.005        | <0.005        | <0.005        |
| Phenanthrene #                      | TM4/PM30  | ug/l  | <0.005 |                        |                      |                     | <0.005       | 0.913        | 0.014        | 0.075        | <0.005       | 0.065        | 0.171        | <0.005       | 0.008        | 0.257        | 0.039        | 0.044        | <0.005        | <0.005        | <0.005        |
| Anthracene #                        | TM4/PM30  | ug/l  | <0.005 | WFD                    | 0.1                  | 2                   | 0.012        | 0.184        | 0.009        | 0.055        | 0.026        | 0.062        | 0.012        | <0.005       | 0.005        | 0.097        | 0.069        | 0.171        | <0.005        | <0.005        | <0.005        |
| Fluoranthene #                      | TM4/PM30  | ug/l  | <0.005 | WFD                    | 0.0063               | 13                  | 0.016        | 0.098        | 0.025        | 0.135        | 0.007        | 0.277        | 0.045        | 0.005        | 0.011        | 0.163        | 0.068        | 1.871        | 0.011         | <0.005        | 0.015         |
| Pyrene #                            | TM4/PM30  | ug/l  | <0.005 |                        |                      |                     | 0.011        | 0.06         | 0.019        | 0.095        | 0.007        | 0.313        | 0.067        | 0.005        | 0.012        | 0.112        | 0.052        | 1.244        | 0.009         | <0.005        | 0.013         |
| Benzo(a)anthracene #                | TM4/PM30  | ug/l  | <0.005 |                        |                      |                     | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.142        | 0.047        | <0.005       | 0.011        | 0.025        | 0.013        | 0.184        | <0.005        | <0.005        | <0.005        |
| Chrysene #                          | TM4/PM30  | ug/l  | <0.005 |                        |                      |                     | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.184        | 0.012        | <0.005       | 0.007        | 0.021        | 0.014        | 0.195        | <0.005        | <0.005        | <0.005        |
| Benzo(bk)fluoranthene #             | TM4/PM30  | ug/l  | <0.008 |                        |                      |                     | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.52         | 0.012        | <0.008       | 0.016        | 0.021        | 0.01         | 0.157        | <0.008        | <0.008        | <0.008        |
| Benzo(a)pyrene #                    | TM4/PM30  | ug/l  | <0.005 | WFD                    | 0.00017              | 8                   | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.284        | 0.012        | <0.005       | 0.009        | 0.01         | 0.006        | 0.087        | 0.007         | <0.005        | 0.007         |
| Indeno(123cd)pyrene #               | TM4/PM30  | ug/l  | <0.005 | WFD                    | 0.00017              | 6                   | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.216        | 0.006        | <0.005       | 0.007        | 0.006        | <0.005       | 0.047        | <0.005        | <0.005        | 0.006         |
| Dibenzo(ah)anthracene #             | TM4/PM30  | ug/l  | <0.005 |                        |                      |                     | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.059        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.008        | <0.005        | <0.005        | <0.005        |
| Benzo(ghi)perylene #                | TM4/PM30  | ug/l  | <0.005 | WFD                    | 0.00017              | 5                   | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.255        | <0.005       | <0.005       | 0.008        | 0.007        | <0.005       | 0.039        | <0.005        | <0.005        | 0.006         |
| PAH 16 Total #                      | TM4/PM30  | ug/l  | <0.173 |                        |                      |                     | <0.173       | 24.925       | 0.475        | 1.382        | <0.173       | 2.681        | <0.005       | <0.173       | <0.173       | 2.585        | 1.806        | 5.542        | <0.173        | <0.173        | <0.173        |
| Benzo(b)fluoranthene                | TM4/PM30  | ug/l  | <0.008 | WFD                    | 0.00017              | 5                   | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.374        | 1.839        | <0.008       | 0.012        | 0.015        | <0.008       | 0.113        | <0.008        | <0.008        | <0.008        |
| Benzo(k)fluoranthene                | TM4/PM30  | ug/l  | <0.008 | WFD                    | 0.00017              | 3                   | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.146        | 0.009        | <0.008       | <0.008       | <0.008       | <0.008       | 0.044        | <0.008        | <0.008        | <0.008        |
| PAH Surrogate % Recovery            | TM4/PM30  | %     | <0     |                        |                      |                     | 93           | 69           | 97           | 64           | 79           | 95           | <0.008       | 76           | 91           | 91           | 85           | 61           | 90            | 59            | 92            |
| VOC TICs                            | TM15/PM10 | None  |        |                        |                      |                     | ND           | NA           | ND           | ND           | ND           | ND           | ND           | NA           | NA           | NA           | NA           | NA           | ND            | ND            | NA            |
| Methyl Tertiary Butyl Ether #       | TM15/PM10 | ug/l  | <0.1   |                        |                      |                     | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Benzene #                           | TM15/PM10 | ug/l  | <0.5   | WFD                    | 10                   | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Toluene #                           | TM15/PM10 | ug/l  | <5     | EQS                    | 74                   | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Ethylbenzene #                      | TM15/PM10 | ug/l  | <1     |                        |                      |                     | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| m/p-Xylene #                        | TM15/PM10 | ug/l  | <2     | EQS                    | 30                   | 0                   | <2           | <2           | <2           | <2           | <2           | <2           | <2           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| o-Xylene #                          | TM15      |       |        |                        |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |

| Risks to Surface Water                             |                         |       |       |                          | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |    |
|----------------------------------------------------|-------------------------|-------|-------|--------------------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|----|
|                                                    |                         |       |       |                          | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |    |
|                                                    |                         |       |       |                          | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |    |
|                                                    |                         |       |       |                          | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |    |
|                                                    |                         |       |       |                          | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |    |
| Test                                               | Method                  | Units | LOD   | GAC Source               | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |    |
| >C16-C21 <sup>#</sup>                              | TM5/PM16/PM30           | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| >C21-C35 <sup>#</sup>                              | TM5/PM16/PM30           | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| Total aliphatics C5-35 <sup>#</sup>                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| Aromatics                                          |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |    |
| >C5-EC7 <sup>#</sup>                               | TM36/PM12               | ug/l  | <10   | WFD                      | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| >EC7-EC8 <sup>#</sup>                              | TM36/PM12               | ug/l  | <10   |                          | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| >EC8-EC10 <sup>#</sup>                             | TM36/PM12               | ug/l  | <10   |                          | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| >EC10-EC12 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <5    |                          | 10                   | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <10          | <10          | <10          | <10          | <5           | <5            | <5            | <5            |    |
| >EC12-EC16 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   |                          | 10                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| >EC16-EC21 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| >EC21-EC35 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| Total aromatics C5-35 <sup>#</sup>                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| Total aliphatics and aromatics(C5-35) <sup>#</sup> | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                          |                      |                     | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |    |
| Total Phenols HPLC                                 | TM26/PM0                | mg/l  | <0.15 | EQS                      | 0.0077               | 0                   | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15         | <0.15         | <0.15         |    |
| Other Inorganics                                   |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |    |
| Sulphate as SO4 <sup>#</sup>                       | TM89/PM0                | mg/l  | <0.5  | EQS                      | 400                  | 0                   | 28.9         | 81.6         | 55.2         | 66           | 165.6        | 84.4         | <0.5         | 3.1          | 223.5        | <0.5         | 9.9          | 36.2         | 37.1          | 34.3          | 34.6          |    |
| Chloride <sup>#</sup>                              | TM38/PM0                | mg/l  | <0.3  | EQS                      | 250                  | 0                   | 32           | 43.3         | 51.1         | 208.2        | 12.3         | 35.2         | 71.7         | 46.2         | 17.4         | 15.5         | 67.8         | 16.4         | 45            | 43.2          | 43.1          |    |
| Nitrate as NO3 <sup>#</sup>                        | TM38/PM0                | mg/l  | <0.2  |                          |                      |                     | <0.2         | <0.2         | 5.3          | <0.2         | <0.2         | 4.2          | <0.2         | 45.2         | 0.6          | <0.2         | <0.2         | <0.2         | 19.9          | 20.1          | 19.3          |    |
| Nitrite as NO2 <sup>#</sup>                        | TM38/PM0                | mg/l  | <0.02 |                          |                      |                     | <0.02        | <0.02        | 0.18         | <0.02        | <0.02        | 0.03         | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | 0.06          | 0.05          | 0.05          |    |
| Ortho Phosphate as PO4 <sup>#</sup>                | TM38/PM0                | mg/l  | <0.06 |                          |                      |                     | <0.06        | 0.1          | 0.56         | 0.16         | <0.06        | 0.14         | 0.38         | <0.06        | <0.06        | <0.06        | <0.06        | 0.38         | 0.66          | 0.52          | 0.39          |    |
| Total Cyanide <sup>#</sup>                         | TM89/PM0                | mg/l  | <0.01 | EQS                      | 1                    | 0                   | 0.02         | 0.02         | <0.01        | 0.03         | 0.01         | <0.01        | 0.1          | <0.01        | 0.02         | <0.01        | <0.01        | 0.33         | <0.01         | <0.01         | <0.01         |    |
| Ammoniacal Nitrogen as N <sup>#</sup>              | TM38/PM0                | mg/l  | <0.03 | EQS alkalinity dependent | 2.5                  | 8                   | 5.53         | 11.83        | 0.03         | 11.46        | 0.49         | 0.12         | 22.01        | 3.27         | 2.42         | 12.27        | 6.86         | 7.9          | 0.06          | 0.05          | 0.06          |    |
| Hexavalent Chromium                                | TM38/PM0                | ug/l  | <6    | EQS                      | 3.4                  | 0                   | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |    |
| Total Dissolved Chromium III                       | TM0/PM0                 | ug/l  | <6    | EQS                      | 4.7                  | 0                   | <6           | <6           | <6           | <6           | NA           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |    |
| Total Alkalinity as CaCO3 <sup>#</sup>             | TM75/PM0                | mg/l  | <1    |                          |                      |                     | 1134         | 868          | 294          | 668          | 192          | 216          | 1064         | 780          | 712          | 1050         | 784          | 790          | 212           | 224           | 228           |    |
| BTEX                                               |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |    |
| MTBE <sup>#</sup>                                  | TM36/PM12               | ug/l  | <5    |                          |                      |                     | <0.1         | <0.1         | <0.1         | NA           | NA           | <0.1         | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |    |
| Benzene <sup>#</sup>                               | TM36/PM12               | ug/l  | <5    | EU S                     | 10                   | 0                   | <0.5         | <0.5         | <0.5         | NA           | NA           | <0.5         | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |    |
| Toluene <sup>#</sup>                               | TM36/PM12               | ug/l  | <5    | UK ES                    | 74                   | 0                   | <5           | <5           | <5           | NA           | NA           | <5           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |    |
| Ethylbenzene <sup>#</sup>                          | TM36/PM12               | ug/l  | <5    | OSPAR                    | 10                   | 0                   | <1           | <1           | <1           | NA           | NA           | <1           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |    |
| m/p-Xylene <sup>#</sup>                            | TM36/PM12               | ug/l  | <5    |                          | 30                   | 0                   | <2           | <2           | <2           | NA           | NA           | <2           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |    |
| o-Xylene <sup>#</sup>                              | TM36/PM12               | ug/l  | <5    |                          | 30                   | 0                   | <1           | <1           | <1           | NA           | NA           | <1           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |    |
| Phenols                                            |                         |       |       |                          |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |    |
| 2-Chlorophenol <sup>#</sup>                        | TM16/PM30               | ug/l  | <0.5  | UK ES                    | 50                   | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 2-Methylphenol <sup>#</sup>                        | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| 2-Nitrophenol                                      | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| 2,4-Dichlorophenol <sup>#</sup>                    | TM16/PM30               | ug/l  | <1    | UK ES                    | 4                    | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| 2,4-Dimethylphenol                                 | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 2,4,5-Trichlorophenol <sup>#</sup>                 | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| 2,4,6-Trichlorophenol                              | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 4-Chloro-3-methylphenol <sup>#</sup>               | TM16/PM30               | ug/l  | <1    | UK ES                    | 40                   | 0                   | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| 4-Methylphenol                                     | TM16/PM30               | ug/l  | <10   |                          |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 4-Nitrophenol                                      | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <10          | NA           | <10          | <10          | <10          | <10          | <10          | <10          | NA           | NA           | NA           | NA           | NA            | <10           | <10           | NA |
| Pentachlorophenol                                  | TM16/PM30               | ug/l  | <1    | ES S                     | 0.4                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Phenol                                             | TM16/PM30               | ug/l  | <1    | UK ES                    | 7.7.                 |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |    |

| Risks to Surface Water                    |           |       |      |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |    |
|-------------------------------------------|-----------|-------|------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|----|
|                                           |           |       |      |            | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |    |
|                                           |           |       |      |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |    |
|                                           |           |       |      |            | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |    |
|                                           |           |       |      |            | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |    |
| Test                                      | Method    | Units | LOD  | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |    |
| 2,4-Dinitrotoluene <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| 2,6-Dinitrotoluene                        | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 3-Nitroaniline                            | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 4-Bromophenylphenylether <sup>#</sup>     | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 4-Chloroaniline                           | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 4-Chlorophenylphenylether <sup>#</sup>    | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| 4-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| Azobenzene <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| Bis(2-chloroethoxy)methane <sup>#</sup>   | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| Bis(2-chloroethyl)ether <sup>#</sup>      | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Carbazole <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| Dibenzofuran <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| Hexachlorobenzene <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | ES S       | 0.05                 | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Hexachlorobutadiene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | ES S       | 0.6                  | 0                   | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Hexachlorocyclopentadiene                 | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Hexachloroethane <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Isophorone <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| N-nitrosodi-n-propylamine <sup>#</sup>    | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA            | <0.5          | <0.5          | NA |
| Nitrobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <0   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Surrogate Recovery 2-Fluorobiphenyl       | TM16/PM30 | %     | <0   |            |                      |                     | 105          | NA           | 89           | 101          | 128          | 97           | 105          | NA           | NA           | NA           | NA           | NA           | NA            | 114           | 97            | NA |
| Surrogate Recovery p-Terphenyl-d14        | TM16/PM30 | %     |      |            |                      |                     | 113          | NA           | 106          | 113          | 142          | 107          | 113          | NA           | NA           | NA           | NA           | NA           | NA            | 118           | 104           | NA |
| VOC MS                                    |           |       |      |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |    |
| Dichlorodifluoromethane                   | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA            | <2            | <2            | NA |
| Methyl Tertiary Butyl Ether <sup>#</sup>  | TM15/PM10 | ug/l  | <0.1 |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA            | <0.1          | <0.1          | NA |
| Chloromethane <sup>#</sup>                | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            | NA |
| Vinyl Chloride <sup>#</sup>               | TM15/PM10 | ug/l  | <0.1 |            |                      |                     | <0.1         | NA           | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA            | <0.1          | <0.1          | NA |
| Bromomethane                              | TM15/PM10 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Chloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            | NA |
| Trichlorofluoromethane <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            | NA |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup> | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            | NA |
| Dichloromethane (DCM) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | EU S       | 20                   | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            | NA |
| trans-1-2-Dichloroethene <sup>#</sup>     | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            | NA |
| 1,1-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            | NA |
| cis-1-2-Dichloroethene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <1           | <1           | <3           | <1           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            | NA |
| 2,2-Dichloropropane                       | TM15/PM10 | ug/l  | <1   |            |                      |                     | <1           | NA           | <1           | <2           | <2           | <2           | <1           | <2           | NA           | NA           | NA           | NA           | NA            | <1            | <1            | NA |
| Bromochloromethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2           | NA           | <2           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA            | <2            | <2            | NA |
| Chloroform <sup>#</sup>                   | TM15/PM10 | ug/l  | <2   | EU S       | 2.5                  | 0                   | <2           | NA           | <2           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA            | <2            | <2            | NA |
| 1,1,1-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   | UK ES      | 100                  | 0                   | <2           | NA           | <2           | <3           | <3           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA            | <2            | <2            | NA |
| 1,1-Dichloropropene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3           | NA           | <3           | <2           | <2           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA            | <3            | <3            |    |



| Risks to Surface Water                  |             |       |       |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-----------------------------------------|-------------|-------|-------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                         |             |       |       |            | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                         |             |       |       |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                         |             |       |       |            | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                         |             |       |       |            | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                    | Method      | Units | LOD   | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 1,2,3-Trichloropropane <sup>#</sup>     | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Propylbenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 2-Chlorotoluene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,3,5-Trimethylbenzene <sup>#</sup>     | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 4-Chlorotoluene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| tert-Butylbenzene <sup>#</sup>          | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2,4-Trimethylbenzene <sup>#</sup>     | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| sec-Butylbenzene <sup>#</sup>           | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 4-Isopropyltoluene <sup>#</sup>         | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,3-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,4-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| n-Butylbenzene <sup>#</sup>             | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2-Dichlorobenzene <sup>#</sup>        | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           |              | <3            | <3            | NA            |
| 1,2-Dibromo-3-chloropropane             | TM15/PM10   | ug/l  | <2    |            |                      |                     | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           |              | <2            | <2            | NA            |
| 1,2,4-Trichlorobenzene                  | TM15/PM10   | ug/l  | <3    | EU S       | 0.4                  | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           |              | <3            | <3            | NA            |
| Hexachlorobutadiene                     | TM15/PM10   | ug/l  | <3    | EU S       | 0.5                  | 0                   | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           |              | <3            | <3            | NA            |
| Naphthalene                             | TM15/PM10   | ug/l  | <2    | WFD        | 2                    | 0                   | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           |              | <2            | <2            | NA            |
| 1,2,3-Trichlorobenzene                  | TM15/PM10   | ug/l  | <3    | EU S       | 0.4                  | 0                   | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           |              | <3            | <3            | NA            |
| Surrogate Recovery Toluene D8           | TM15/PM10   | %     | <0    |            |                      |                     | 107          | NA           | 99           | 103          | 99           | 100          | 98           | NA           | NA           | NA           | NA           |              | 100           | 112           | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10   | %     | <0    |            |                      |                     | 107          | NA           | 101          |              |              | 109          |              | NA           | NA           | NA           | NA           |              | 100           | 109           | NA            |
|                                         |             |       |       |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| SVOC TICs                               | TM16/PM30   | None  |       |            |                      |                     | ND           | NA           | ND           |              |              | ND           |              | NA           | NA           | NA           | NA           |              | ND            | ND            | NA            |
| PFAAS                                   |             |       |       |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFBA                                    | TM135/PM121 | ug/l  | <0.05 |            | 7                    | 0                   | 0.102        | NA           | 0.013        | NA           | NA           | 0.029        | NA           | NA           | NA           | NA           | NA           | NA           | 0.012         | 0.013         | NA            |
| PFPeA                                   | TM135/PM121 | ug/l  | <0.05 |            | 3                    | 0                   | 0.055        | NA           | 0.009        | NA           | NA           | 0.031        | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.006         | NA            |
| PFHxA                                   | TM135/PM121 | ug/l  | <0.05 |            | 1                    | 0                   | 0.041        | NA           | 0.007        | NA           | NA           | 0.027        | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.007         | NA            |
| PFHpA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | 0.018        | NA           | 0.003        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | 0.002         | NA            |
| PFOA                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | 0.0878       | NA           | 0.0125       | NA           | NA           | 0.0129       | NA           | NA           | NA           | NA           | NA           | NA           | 0.0061        | 0.006         | NA            |
| PFNA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.010       | NA           | <0.001       | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFUnA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDoA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFTTrDA                                 | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.006       | NA           | <0.006       | NA           | NA           | <0.006       | NA           | NA           | NA           | NA           | NA           | NA           | <0.006        | <0.006        | NA            |
| PFTeDA                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFHxDA                                  | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.01        | NA           | <0.01        | NA           | NA           | <0.01        | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | NA            |
| PFODA                                   | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.025       | NA           | <0.025       | NA           | NA           | <0.025       | NA           | NA           | NA           | NA           | NA           | NA           | <0.025        | <0.025        | NA            |
| PFBS                                    | TM135/PM121 | ug/l  | <0.05 |            | 3                    | 0                   | 0.021        | NA           | 0.006        | NA           | NA           | 0.114        | NA           | NA           | NA           | NA           | NA           | NA           | 0.007         | 0.006         | NA            |
| PFPeS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | <0.010       | NA           | 0.001        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFHxS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | 0.047        | NA           | 0.007        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.005         | NA            |
| PFHpS                                   | TM135/PM121 | ug/l  | <0.05 |            |                      | 0                   | 0.001        | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFOS                                    | TM135/PM121 | ug/l  | <0.05 |            | 0.00065              | 5                   | 0.0495       | NA           | 0.0159       | NA           | NA           | 0.0243       | NA           | NA           | NA           | NA           | NA           | NA           | 0.0067        | 0.0066        | NA            |
| PFNS                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | 0.001         | <0.001        | NA            |
| PFDS                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFUnDS                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDoDS                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFTTrDS                                 | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| HFPO-DA (Gen X)                         | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| HFPO-TA                                 | TM135/PM121 | ug/l  | <1    |            |                      |                     | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| DONA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFMOPrA                                 | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.010       | NA           | 0.016        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | 0.133         | 0.133         | NA            |
| NFDHA                                   | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFMOBA                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.001       | NA           | <0.005       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | 0.015         | 0.015         | NA            |
| PFECHS                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | 0.023        | NA           | 0.002        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 3:3 FTCA                                | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| 5:3 FTCA                                | TM135/PM121 | ug/l  | <0.5  |            |                      |                     | <0.01        | NA           | <0.01        | NA           | NA           | <0.01        | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | NA            |
| 7:3 FTCA                                | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |

| Risks to Surface Water  |             |       |          |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-------------------------|-------------|-------|----------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                         |             |       |          |            | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                         |             |       |          |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                         |             |       |          |            | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                         |             |       |          |            | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                    | Method      | Units | LOD      | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFEESA                  | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 9Cl-PF3ONS              | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 11Cl-PF3OUdS            | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 4:2 FTS                 | TM135/PM121 | ug/l  | <0.2     |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 6:2 FTS                 | TM135/PM121 | ug/l  | <0.2     |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 8:2 FTS                 | TM135/PM121 | ug/l  | <0.2     |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| FBSA                    | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| FHxSA                   | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| FOSA                    | TM135/PM121 | ug/l  | <1       |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-MeFOSA                | TM135/PM121 | ug/l  | <1       |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-EtFOSA                | TM135/PM121 | ug/l  | <1       |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| Me-FOSE                 | TM135/PM121 | ug/l  | <0.1     |            |                      |                     | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| Et-FOSE                 | TM135/PM121 | ug/l  | <0.1     |            |                      |                     | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| N-MeFOSAA               | TM135/PM121 | ug/l  | <1       |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-EtFOSAA               | TM135/PM121 | ug/l  | <1       |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 8:2diPAP                | TM135/PM121 | ug/l  | <0.2     |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| FOUEA                   | TM135/PM121 | ug/l  | <1       |            |                      |                     | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| PFBS <sup>#</sup>       | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | 0.021        |              | 0.006        | 0.022        | 0.02         | 0.114        | 0.021        |              |              |              |              |              | 0.007         | 0.006         |               |
| PFPeS <sup>#</sup>      | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.010       |              | 0.001        | 0.014        | <0.010       | <0.010       | <0.010       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFHxS <sup>#</sup>      | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | 0.047        |              | 0.007        | 0.103        | <0.010       | <0.010       | 0.049        |              |              |              |              |              | 0.006         | 0.005         |               |
| PFHpS <sup>#</sup>      | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | 0.001        |              | <0.001       | 0.019        | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFOS <sup>#</sup>       | TM135/PM122 | ug/l  | <0.00065 |            | 0.00065              | 8                   | 0.0495       |              | 0.0159       | 3.4078       | 0.0512       | 0.0243       | 0.0324       |              |              |              |              |              | 0.0067        | 0.0066        |               |
| PFNS                    | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | 0.001         | <0.001        |               |
| PFDS                    | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFUnDS                  | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | 0.001        |              |              |              |              |              | <0.001        | <0.001        |               |
| PFDoDS                  | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFTTrDS                 | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| HFPO-DA (Gen X)         | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| HFPO-TA                 | TM135/PM122 | ug/l  | <0.02    |            |                      |                     | <0.02        |              | <0.02        | <0.20        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| DONA <sup>#</sup>       | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFMOPrA                 | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.010       |              | 0.016        | <0.020       | <0.020       | <0.010       | <0.020       |              |              |              |              |              | 0.133         | 0.133         |               |
| NFDHA                   | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFMOBA                  | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.005       | <0.010       | <0.010       | <0.001       | <0.010       |              |              |              |              |              | 0.015         | 0.015         |               |
| PFECHS                  | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | 0.023        |              | 0.002        | 0.319        | <0.010       | <0.010       | 0.06         |              |              |              |              |              | <0.001        | <0.001        |               |
| 3:3 FTCA                | TM135/PM122 | ug/l  | <0.02    |            |                      |                     | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| 5:3 FTCA                | TM135/PM122 | ug/l  | <0.01    |            |                      |                     | <0.01        |              | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |              |              |              |              |              | <0.01         | <0.01         |               |
| 7:3 FTCA                | TM135/PM122 | ug/l  | <0.02    |            |                      |                     | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| PFEESA                  | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| 9Cl-PF3ONS <sup>#</sup> | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| 11Cl-PF3OUdS            | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| 4:2 FTS                 | TM135/PM122 | ug/l  | <0.005   |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| 6:2 FTS                 | TM135/PM122 | ug/l  | <0.005   |            |                      |                     | <0.005       |              | <0.005       | <0.050       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| 8:2 FTS                 | TM135/PM122 | ug/l  | <0.005   |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| FBSA                    | TM135/PM122 | ug/l  | <0.02    |            |                      |                     | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| FHxSA                   | TM135/PM122 | ug/l  | <0.02    |            |                      |                     | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| FOSA                    | TM135/PM122 | ug/l  | <0.005   |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| N-MeFOSA                | TM135/PM122 | ug/l  | <0.005   |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| N-EtFOSA                | TM135/PM122 | ug/l  | <0.005   |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| Me-FOSE                 | TM135/PM122 | ug/l  | <0.02    |            |                      |                     | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| Et-FOSE                 | TM135/PM122 | ug/l  | <0.02    |            |                      |                     | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| N-MeFOSAA               | TM135/PM122 | ug/l  | <0.005   |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |



|                            |                |          |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
|----------------------------|----------------|----------|--------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
| Risks to Surface Water     |                |          |        |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|                            |                |          |        |            | Depth                |                     | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                            |                |          |        |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                            |                |          |        |            | Sampled Date         |                     | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                            |                |          |        |            | Sample Received Date |                     | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                       | Method         | Units    | LOD    | GAC Source | GAC SW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| N-EtFOSAA                  | TM135/PM122    | ug/l     | <0.005 |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.050       |              |              |              |              |              | <0.005        | <0.005        |               |
| 8:2diPAP                   | TM135/PM122    | ug/l     | <0.005 |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| FOUEA                      | TM135/PM122    | ug/l     | <0.005 |            |                      |                     | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
|                            |                |          |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dioxane*               | Subcontracted/ | ug/l     | <0.07  | EQS        | 0.46                 | 0                   | <21.00       | NA           | <28.00       | NA           | NA           | <28.00       | NA           | NA           | NA           | NA           | NA           | NA           | <28.00        | <21.00        | NA            |
| BOD (Settled) #            | TM58/PM0       | mg/l     | <1     |            |                      |                     | 14           | 14           | 8            | NA           | NA           | <3           | NA           | 21           | <3           | 26           | 25           | NA           | <2            | <2            | <2            |
| COD (Settled) #            | TM57/PM0       | mg/l     | <7     |            |                      |                     | 104          | 75           | 8            | NA           | NA           | 49           | NA           | 84           | 62           | 36           | 39           | NA           | 12            | 14            | 13            |
| Dissolved Organic Carbon # | TM60/PM0       | mg/l     | <2     |            |                      |                     | 33           | 18           | <2           | NA           | NA           | 8            | NA           | 24           | 26           | 5            | 18           | NA           | 3             | 2             | 2             |
| Free Ammonia as NH3        | TM176/PM0      | mg/l     | <0.007 |            |                      |                     | 0.032        | 0.108        | <0.007       | NA           | NA           | <0.007       | NA           | 0.015        | 0.021        | 0.079        | 0.022        | NA           | <0.007        | <0.007        | <0.007        |
| pH #                       | TM73/PM0       | pH units | <0.01  |            |                      |                     | 7.7          | 7.86         | 8.02         | NA           | NA           | 7.93         | NA           | 7.67         | 7.65         | 7.33         | 7.5          | NA           | 8.17          | 8.3           | 8.21          |

| Risks to Surface Water                  |                         |       |        |                        | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|-----------------------------------------|-------------------------|-------|--------|------------------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                         |                         |       |        |                        | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                         |                         |       |        |                        | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                         |                         |       |        |                        | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                         |                         |       |        |                        | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                    | Method                  | Units | LOD    | GAC Source             | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| Metals                                  |                         |       |        |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   | EQS                    | 50                   | 0                   | 1.3           | 1.2           | 1.1           | 4.7          | 14.5         | 2.6          | 7.9          | 3.8          | 4            | 2.9          | 2            | 38.8         |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   |                        |                      |                     | <0.5          | <0.5          | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    | EQS                    | 2000                 | 1                   | 63            | 71            | 49            | 546          | 284          | 122          | 2207         | 168          | 1202         | 439          | 1172         | 90           |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   | WFD hardness dependent | 0.25                 | 0                   | <0.03         | <0.03         | <0.03         | <0.03        | <0.03        | 0.07         | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   | EQS                    | 4.7                  | 2                   | 1.7           | 0.2           | 1.2           | 0.7          | 0.6          | 0.5          | 0.9          | 6.5          | 0.8          | 8.9          | 2.2          | 0.9          |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     | EQS bioavailable       | 6.81                 | 1                   | 3             | 2             | 2             | 2            | <1           | 12           | <1           | 3            | <1           | 3            | <1           | <1           |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    | EQS                    | 1000                 | 5                   | 24.4          | 23.9          | 20.9          | 2093         | 4943.3       | 14.3         | 494.6        | 188.2        | 2055.8       | 34.7         | 2310.7       | 29807.3      |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | WFD bioavailable       | 1.2                  | 1                   | <0.4          | <0.4          | <0.4          | <0.4         | <0.4         | 1.8          | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     | WFD                    | 0.07                 | 0                   | <0.5          | <0.5          | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     | WFD bioavailable       | 16.31                | 0                   | 1.9           | 1.8           | 1.7           | 3.8          | 4.3          | 5.9          | 2.8          | 2.9          | 2.4          | 5.4          | 1.2          | 1.7          |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     |                        |                      |                     | <1.2          | <1.2          | <1.2          | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | 1.2          |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   | EQS hardness dependent | 60                   | 0                   | 1.9           | 1.9           | 2.1           | 3.9          | 1.5          | 8.3          | 3            | 9.8          | 2.3          | 6.4          | 7.5          | 2.6          |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     | EQS bioavailable       | 30.47                | 0                   | 7             | 6.5           | 6.7           | 6            | 2.9          | 20.3         | 3.6          | 3.7          | 1.9          | 5.5          | 2.7          | 8.7          |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| PAH MS                                  |                         |       |        |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Naphthalene #                           | TM4/PM30                | ug/l  | <0.1   | WFD                    | 2                    | 1                   | <0.1          | <0.1          | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | 17.7         | <0.1         | <0.1         | <0.1         |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | 0.009         | <0.005        | <0.005        | 0.009        | <0.005       | 0.03         | 0.024        | 0.007        | <0.005       | 0.099        | <0.005       | <0.005       |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | <0.005        | <0.005        | <0.005        | 0.196        | 0.007        | 0.062        | 1.897        | 0.008        | 4.325        | 3.548        | 0.006        | <0.005       |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | <0.005        | <0.005        | <0.005        | 0.015        | 0.005        | 0.015        | 0.07         | <0.005       | 2.068        | 0.699        | 0.005        | <0.005       |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | 0.021         | 0.005         | 0.006         | 0.009        | 0.008        | 0.035        | 0.506        | 0.005        | 1.465        | 0.067        | 0.005        | <0.005       |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.1                  | 2                   | 0.016         | <0.005        | <0.005        | 0.019        | 0.007        | 0.062        | 0.134        | 0.026        | 0.358        | 0.051        | <0.005       | <0.005       |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.0063               | 10                  | 0.109         | 0.012         | 0.013         | 0.041        | 0.012        | 0.17         | 0.281        | 0.014        | 0.232        | 0.42         | <0.005       | <0.005       |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | 0.108         | 0.013         | 0.012         | 0.033        | 0.012        | 0.192        | 0.175        | 0.014        | 0.141        | 0.236        | <0.005       | <0.005       |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | 0.068         | 0.006         | 0.005         | 0.005        | 0.006        | 0.105        | 0.012        | 0.007        | 0.005        | 0.007        | <0.005       | <0.005       |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | 0.088         | 0.005         | 0.007         | 0.006        | 0.006        | 0.159        | 0.015        | 0.008        | 0.005        | 0.005        | <0.005       | <0.005       |
| Benzo(bk)fluoranthene #                 | TM4/PM30                | ug/l  | <0.008 |                        |                      |                     | 0.214         | 0.01          | 0.013         | 0.011        | 0.011        | 0.484        | 0.01         | 0.017        | <0.008       | <0.008       | <0.008       | <0.008       |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 8                   | 0.11          | 0.005         | 0.006         | 0.006        | 0.005        | 0.217        | 0.005        | 0.009        | <0.005       | <0.005       | <0.005       | <0.005       |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 5                   | 0.092         | <0.005        | 0.005         | 0.005        | <0.005       | 0.208        | <0.005       | 0.007        | <0.005       | <0.005       | <0.005       | <0.005       |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |                        |                      |                     | 0.018         | <0.005        | <0.005        | <0.005       | <0.005       | 0.038        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | WFD                    | 0.00017              | 6                   | 0.092         | 0.005         | 0.006         | 0.005        | <0.005       | 0.229        | <0.005       | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 |                        |                      |                     | 0.945         | <0.173        | <0.173        | 0.36         | <0.173       | 2.006        | 3.129        | <0.173       | 26.299       | 5.132        | <0.173       | <0.173       |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | WFD                    | 0.00017              | 4                   | 0.154         | <0.008        | 0.009         | <0.008       | <0.008       | 0.348        | <0.008       | 0.012        | <0.008       | <0.008       | <0.008       | <0.008       |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | WFD                    | 0.00017              | 2                   | 0.06          | <0.008        | <0.008        | <0.008       | <0.008       | 0.136        | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |                        |                      |                     | 63            | 88            | 80            | 85           | 76           | 82           | 78           | 79           | 82           | 86           | 72           | 87           |
| VOC TICs                                | TM15/PM10               | None  |        |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   |                        |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | WFD                    | 10                   | 0                   | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | EQS                    | 74                   | 0                   | <5            | <5            | -             | <5           | <5           | <5           | <5           | <5           | -            | <5           | -            | <5           |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     |                        |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | EQS                    | 30                   | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | EQS                    | 30                   | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| TPH CWG                                 |                         |       |        |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Aliphatics                              |                         |       |        |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    |                        | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     |                        | 10                   | 0                   | <5            | <5            | <5            | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |                        |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                        |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Aromatics                               |                         |       |        |                        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | WFD                    | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |

| Risks to Surface Water                  |                         |       |       |                          | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |              |
|-----------------------------------------|-------------------------|-------|-------|--------------------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                         |                         |       |       |                          | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |              |
|                                         |                         |       |       |                          | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                         |                         |       |       |                          | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                         |                         |       |       |                          | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                    | Method                  | Units | LOD   | EQS Source               | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |              |
| >EC7-EC8 #                              | TM36/PM12               | ug/l  | <10   |                          | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |
| >EC8-EC10 #                             | TM36/PM12               | ug/l  | <10   |                          | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |
| >EC10-EC12 #                            | TM5/PM16/PM30           | ug/l  | <5    |                          | 10                   | 0                   | <5            | <5            | <5            | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |              |
| >EC12-EC16 #                            | TM5/PM16/PM30           | ug/l  | <10   |                          | 10                   | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |
| >EC16-EC21 #                            | TM5/PM16/PM30           | ug/l  | <10   |                          |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |
| >EC21-EC35 #                            | TM5/PM16/PM30           | ug/l  | <10   |                          |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |
| Total aromatics C5-35 #                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                          |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |
| Total aliphatics and aromatics(C5-35) # | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                          |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |
| Total Phenols HPLC                      | TM26/PM0                | mg/l  | <0.15 | EQS                      | 0.0077               | 0                   | <0.15         | <0.15         | <0.15         | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        |              |
| Other Inorganics                        |                         |       |       |                          |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |              |
| Sulphate as SO4 #                       | TM89/PM0                | mg/l  | <0.5  | EQS                      | 400                  | 1                   | 42.2          | 37.6          | 36.9          | 192.2        | 403.5        | 74           | 18.8         | 113.6        | 247.2        | 204.7        | <0.5         | 24.9         |              |
| Chloride #                              | TM38/PM0                | mg/l  | <0.3  | EQS                      | 250                  | 0                   | 47.2          | 48.4          | 48.2          | 21.8         | 10           | 12.1         | 217.5        | 9.6          | 24.5         | 40.9         | 34.1         | 44.3         |              |
| Nitrate as NO3 #                        | TM38/PM0                | mg/l  | <0.2  |                          |                      |                     | 24.8          | 28.7          | 28.6          | <0.2         | <0.2         | 3.5          | <0.2         | <0.2         | <0.2         | 2.7          | <0.2         | <0.2         |              |
| Nitrite as NO2 #                        | TM38/PM0                | mg/l  | <0.02 |                          |                      |                     | <0.02         | 0.02          | 0.03          | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | 0.05         | <0.02        |              |
| Ortho Phosphate as PO4 #                | TM38/PM0                | mg/l  | <0.06 |                          |                      |                     | 1.03          | 0.84          | 0.76          | <0.06        | <0.06        | 0.18         | 0.95         | 0.1          | <0.06        | 0.8          | 0.18         | <0.06        |              |
| Total Cyanide #                         | TM89/PM0                | mg/l  | <0.01 | EQS                      | 1                    | 0                   | <0.01         | <0.01         | <0.01         | 0.03         | 0.03         | <0.01        | 0.02         | <0.01        | <0.01        | 0.02         | <0.01        | <0.01        |              |
| Ammoniacal Nitrogen as N #              | TM38/PM0                | mg/l  | <0.03 | EQS alkalinity dependent | 2.5                  | 5                   | 0.03          | 0.03          | 0.03          | 3.75         | 2.3          | 0.04         | 13.89        | 0.68         | 5.08         | 1.26         | 12.15        | 4.93         |              |
| Hexavalent Chromium                     | TM38/PM0                | ug/l  | <6    | EQS                      | 3.4                  | 0                   | <6            | <6            | <6            | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           |              |
| Total Dissolved Chromium III            | TM0/PM0                 | ug/l  | <6    | EQS                      | 4.7                  | 2                   | <6            | <6            | <6            | <6           | <6           | <6           | 7            | <6           | 9            | <6           | <6           | <6           |              |
| Total Alkalinity as CaCO3 #             | TM75/PM0                | mg/l  | <1    |                          |                      |                     | 224           | 242           | 256           | 820          | 518          | 238          | 744          | 216          | 612          | 422          | 862          | 800          |              |
| BTEX                                    |                         |       |       |                          |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |              |
| MTBE #                                  | TM36/PM12               | ug/l  | <5    |                          |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |              |
| Benzene #                               | TM36/PM12               | ug/l  | <5    | EU S                     | 10                   | 0                   | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |              |
| Toluene #                               | TM36/PM12               | ug/l  | <5    | UK ES                    | 74                   | 0                   | <5            | <5            | -             | <5           | <5           | <5           | <5           | <5           | -            | <5           | -            | <5           |              |
| Ethylbenzene #                          | TM36/PM12               | ug/l  | <5    | OSPAR                    | 10                   | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| m/p-Xylene #                            | TM36/PM12               | ug/l  | <5    |                          | 30                   | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |              |
| o-Xylene #                              | TM36/PM12               | ug/l  | <5    |                          | 30                   | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| Phenols                                 |                         |       |       |                          |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |              |
| 2-Chlorophenol #                        | TM16/PM30               | ug/l  | <0.5  | UK ES                    | 50                   | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| 2-Methylphenol #                        | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |              |
| 2-Nitrophenol                           | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |              |
| 2,4-Dichlorophenol #                    | TM16/PM30               | ug/l  | <1    | UK ES                    | 4                    | 0                   | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |              |
| 2,4-Dimethylphenol                      | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| 2,4,5-Trichlorophenol #                 | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |              |
| 2,4,6-Trichlorophenol                   | TM16/PM30               | ug/l  | <0.5  |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| 4-Chloro-3-methylphenol #               | TM16/PM30               | ug/l  | <1    | UK ES                    | 40                   | 0                   | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |              |
| 4-Methylphenol                          | TM16/PM30               | ug/l  | <10   |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | 2            |              |
| 4-Nitrophenol                           | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <10           | <10           | -             | <10          | <10          | <10          | <10          | <10          | -            | <10          | -            | <10          |              |
| Pentachlorophenol                       | TM16/PM30               | ug/l  | <1    | ES S                     | 0.4                  | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| Phenol                                  | TM16/PM30               | ug/l  |       | UK ES                    | 7.7                  | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| PAHs                                    |                         |       |       |                          |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |              |
| 2-Chloronaphthalene #                   | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| 2-Methylnaphthalene #                   | TM16/PM30               | ug/l  |       |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| Phthalates                              |                         |       |       |                          |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |              |
| Bis(2-ethylhexyl) phthalate             | TM16/PM30               | ug/l  | <1    |                          |                      | 0                   | <5            | <5            | -             | <5           | <5           | <5           | <5           | <5           | -            | <5           | -            | <5           |              |
| Butylbenzyl phthalate                   | TM16/PM30               | ug/l  | <1.5  | UK ES                    | 7.5                  | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| Di-n-butyl phthalate #                  | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1.5          | <1.5          | -             | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | -            | <1.5         | -            | <1.5         |              |
| Di-n-Octyl phthalate                    | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| Diethyl phthalate #                     | TM16/PM30               | ug/l  | <1    | UK ES                    | 200                  | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| Dimethyl phthalate                      | TM16/PM30               | ug/l  |       | UK ES                    | 800                  | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| Other SVOCs                             |                         |       |       |                          |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |              |
| 1,2-Dichlorobenzene #                   | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| 1,2,4-Trichlorobenzene #                | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |
| 1,3-Dichlorobenzene #                   | TM16/PM30               | ug/l  | <1    |                          |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |              |

| Risks to Surface Water              |           |       |      |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|-------------------------------------|-----------|-------|------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                     |           |       |      |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                     |           |       |      |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                     |           |       |      |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                     |           |       |      |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                | Method    | Units | LOD  | GAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,4-Dichlorobenzene #               | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 2-Nitroaniline                      | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 2,4-Dinitrotoluene #                | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| 2,6-Dinitrotoluene                  | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 3-Nitroaniline                      | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 4-Bromophenylphenylether #          | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 4-Chloroaniline                     | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 4-Chlorophenylphenylether #         | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 4-Nitroaniline                      | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Azobenzene #                        | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Bis(2-chloroethoxy)methane #        | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Bis(2-chloroethyl)ether #           | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Carbazole #                         | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Dibenzofuran #                      | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Hexachlorobenzene #                 | TM16/PM30 | ug/l  | <1   | ES S       | 0.05                 | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Hexachlorobutadiene #               | TM16/PM30 | ug/l  | <1   | ES S       | 0.6                  | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Hexachlorocyclopentadiene           | TM16/PM30 | ug/l  | <1   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Hexachloroethane #                  | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Isophorone #                        | TM16/PM30 | ug/l  | <0.5 |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| N-nitrosodi-n-propylamine #         | TM16/PM30 | ug/l  | <1   |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Nitrobenzene #                      | TM16/PM30 | ug/l  | <0   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Surrogate Recovery 2-Fluorobiphenyl | TM16/PM30 | %     | <0   |            |                      |                     | 108           | 107           | -             | 103          | 104          | 80           | 108          | 111          | -            | 84           | -            | 98           |
| Surrogate Recovery p-Terphenyl-d14  | TM16/PM30 | %     |      |            |                      |                     | 112           | 112           | -             | 112          | 109          | 85           | 115          | 119          | -            | 84           | -            | 101          |
| VOC MS                              |           |       |      |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,1,1,2-Tetrachloroethane #         | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,1,1-Trichloroethane #             | TM15/PM10 | ug/l  | <2   | UK ES      | 100                  | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,1,2,2-Tetrachloroethane           | TM15/PM10 | ug/l  | <4   |            |                      |                     | <4            | <4            | -             | <4           | <4           | <4           | <4           | <4           | -            | <4           | -            | <4           |
| 1,1,2-Trichloroethane #             | TM15/PM10 | ug/l  | <2   | UK ES      | 400                  | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,1-Dichloroethane #                | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,1-Dichloroethene (1,1 DCE) #      | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,1-Dichloropropene #               | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,2,3-Trichlorobenzene              | TM15/PM10 | ug/l  | <3   | EU S       | 0.4                  | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,2,3-Trichloropropane #            | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,2,4-Trichlorobenzene              | TM15/PM10 | ug/l  | <3   | EU S       | 0.4                  | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,2,4-Trimethylbenzene #            | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,2-Dibromo-3-chloropropane         | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,2-Dibromoethane #                 | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,2-Dichlorobenzene #               | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,2-Dichloroethane #                | TM15/PM10 | ug/l  | <2   | EU S       | 10                   | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,2-Dichloropropane #               | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,3,5-Trimethylbenzene #            | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,3-Dichlorobenzene #               | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,3-Dichloropropane #               | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,4-Dichlorobenzene #               | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 2,2-Dichloropropane                 | TM15/PM10 | ug/l  | <1   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 2-Chlorotoluene #                   | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 4-Chlorotoluene #                   | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 4-Isopropyltoluene #                | TM15/PM10 | ug/l  | <3   |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Benzene #                           | TM15/PM10 | ug/l  | <0.5 | EU S       | 10                   | 0                   | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Bromobenzene #                      | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Bromochloromethane #                | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Bromodichloromethane #              | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Bromoform #                         | TM15/PM10 | ug/l  | <2   |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Bromomethane                        | TM15/PM10 | ug/l  | <1   |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
|                                     |           |       |      |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |

| Risks to Surface Water                   |             |       |       |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|------------------------------------------|-------------|-------|-------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                          |             |       |       |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                          |             |       |       |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                          |             |       |       |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                          |             |       |       |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                     | Method      | Units | LOD   | GAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| Carbon tetrachloride <sup>#</sup>        | TM15/PM10   | ug/l  | <2    | EU S       | 12                   | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Chlorobenzene <sup>#</sup>               | TM15/PM10   | ug/l  | <2    |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Chloroethane <sup>#</sup>                | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Chloroform <sup>#</sup>                  | TM15/PM10   | ug/l  | <2    | EU S       | 2.5                  | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Chloromethane <sup>#</sup>               | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| cis-1-2-Dichloroethene <sup>#</sup>      | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| cis-1-3-Dichloropropene                  | TM15/PM10   | ug/l  | <2    |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Dibromochloromethane <sup>#</sup>        | TM15/PM10   | ug/l  | <2    |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Dibromomethane <sup>#</sup>              | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Dichlorodifluoromethane                  | TM15/PM10   | ug/l  | <2    |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Dichloromethane (DCM) <sup>#</sup>       | TM15/PM10   | ug/l  | <3    | EU S       | 20                   | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Ethylbenzene <sup>#</sup>                | TM15/PM10   | ug/l  | <1    | OSPAR      | 10                   | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Hexachlorobutadiene                      | TM15/PM10   | ug/l  | <3    | EU S       | 0.5                  | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Isopropylbenzene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| m/p-Xylene <sup>#</sup>                  | TM15/PM10   | ug/l  | <2    |            | 30                   | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Methyl Tertiary Butyl Ether <sup>#</sup> | TM15/PM10   | ug/l  | <0.1  |            |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| Naphthalene                              | TM15/PM10   | ug/l  | <2    | WFD        | 2                    | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| n-Butylbenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| o-Xylene <sup>#</sup>                    | TM15/PM10   | ug/l  | <1    |            | 30                   | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Propylbenzene <sup>#</sup>               | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| sec-Butylbenzene <sup>#</sup>            | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Styrene                                  | TM15/PM10   | ug/l  | <2    | UK ES      | 50                   | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Surrogate Recovery 4-Bromofluorobenzene  | TM15/PM10   | %     | <0    |            |                      |                     | 102           | 98            | -             | 98           | 96           | 101          | 100          | 101          | -            | 84           | -            | 94           |
| Surrogate Recovery Toluene D8            | TM15/PM10   | %     | <0    |            |                      |                     | 97            | 91            | -             | 94           | 92           | 98           | 95           | 95           | -            | 76           | -            | 83           |
| tert-Butylbenzene <sup>#</sup>           | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Tetrachloroethene (PCE) <sup>#</sup>     | TM15/PM10   | ug/l  | <3    | EU S       | 10                   | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Toluene <sup>#</sup>                     | TM15/PM10   | ug/l  | <5    | UK ES      | 74                   | 0                   | <5            | <5            | -             | <5           | <5           | <5           | <5           | <5           | -            | <5           | -            | <5           |
| trans-1-2-Dichloroethene <sup>#</sup>    | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| trans-1-3-Dichloropropene                | TM15/PM10   | ug/l  | <2    |            |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Trichloroethene (TCE) <sup>#</sup>       | TM15/PM10   | ug/l  | <3    | EU S       | 10                   | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Trichlorofluoromethane <sup>#</sup>      | TM15/PM10   | ug/l  | <3    |            |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Vinyl Chloride <sup>#</sup>              | TM15/PM10   | ug/l  | <0.1  | UK ES      | 0.25                 | 0                   | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
|                                          |             |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| SVOC TICs                                | TM16/PM30   | None  |       |            |                      | 0                   | ND            | ND            | -             | ND           | ND           | ND           | ND           | ND           | -            | ND           | -            | ND           |
| Cyclic octaatomic sulfur                 | TM16/PM30   | ug/l  | <100  |            |                      | 0                   |               |               |               |              |              |              |              |              |              |              |              |              |
| PFAAS                                    |             |       |       |            |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| PFBA                                     | TM135/PM121 | ug/l  | <0.05 |            | 7                    | 0                   | <0.25         | <0.25         | -             | <0.25        | <0.25        | <0.25        | 0.31         | 0.52         | -            | <0.25        | -            | 0.28         |
| PFPeA                                    | TM135/PM121 | ug/l  | <0.05 |            | 3                    | 0                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | 0.06         | -            | 0.37         |
| PFHxA                                    | TM135/PM121 | ug/l  | <0.05 |            | 1                    | 0                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.06         | <0.05        | -            | <0.05        | -            | 0.15         |
| PFHpA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFOA                                     | TM135/PM121 | ug/l  | <0.05 |            | 0.1                  | 0                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.1          | <0.05        | -            | <0.05        | -            | <0.05        |
| PFNA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDA                                     | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFUnA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDaA                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFTTrDA                                  | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFTeDA                                   | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHxDA                                   | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| PFODA                                    | TM135/PM121 | ug/l  | <0.1  |            |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | 0.1          |
| PFBS                                     | TM135/PM121 | ug/l  | <0.05 |            | 3                    | 0                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | 0.06         | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFPeS                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHxS                                    | TM135/PM121 | ug/l  | <0.05 |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.12         | <0.05        | -            | <0.05        | -            | <0.05        |

| Risks to Surface Water |             |       |          |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|------------------------|-------------|-------|----------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                        |             |       |          |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                        |             |       |          |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                        |             |       |          |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                        |             |       |          |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                   | Method      | Units | LOD      | GAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| PFHpS                  | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFOS                   | TM135/PM121 | ug/l  | <0.05    |            | 0.00065              | 2                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 3.23         | <0.05        | -            | <0.05        | -            | 0.1          |
| PFNS                   | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDS                   | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFUnDS                 | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDoDS                 | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFTrDS                 | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| HFPO-DA (Gen X)        | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| HFPO-TA                | TM135/PM121 | ug/l  | <1       |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| DONA                   | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFMOPrA                | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| NFDHA                  | TM135/PM121 | ug/l  | <0.1     |            |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| PFMOBA                 | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFECHS                 | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.34         | <0.05        | -            | <0.05        | -            | <0.05        |
| 3:3 FTCA               | TM135/PM121 | ug/l  | <0.1     |            |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| 5:3 FTCA               | TM135/PM121 | ug/l  | <0.5     |            |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| 7:3 FTCA               | TM135/PM121 | ug/l  | <0.1     |            |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | 0.5          |
| PFEESA                 | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 9Cl-PF3ONS             | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 11Cl-PF3OUdS           | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 4:2 FTS                | TM135/PM121 | ug/l  | <0.2     |            |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| 6:2 FTS                | TM135/PM121 | ug/l  | <0.2     |            |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| 8:2 FTS                | TM135/PM121 | ug/l  | <0.2     |            |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| FBSA                   | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| FHxSA                  | TM135/PM121 | ug/l  | <0.05    |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| FOSA                   | TM135/PM121 | ug/l  | <1       |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-MeFOSA               | TM135/PM121 | ug/l  | <1       |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-EtFOSA               | TM135/PM121 | ug/l  | <1       |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Me-FOSE                | TM135/PM121 | ug/l  | <0.1     |            |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| Et-FOSE                | TM135/PM121 | ug/l  | <0.1     |            |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| N-MeFOSAA              | TM135/PM121 | ug/l  | <1       |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-EtFOSAA              | TM135/PM121 | ug/l  | <1       |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 8:2diPAP               | TM135/PM121 | ug/l  | <0.2     |            |                      |                     | 0.4           | 0.2           | -             | <0.2         | 0.2          | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| FOUEA                  | TM135/PM121 | ug/l  | <1       |            |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| PFBA #                 | TM135/PM122 | ug/l  | <0.001   |            | 7                    | 0                   | <0.25         | <0.25         | -             | <0.25        | <0.25        | <0.25        | 0.31         | 0.52         | -            | <0.25        | -            | 0.28         |
| PFPeA #                | TM135/PM122 | ug/l  | <0.001   |            | 3                    | 0                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | 0.06         | -            | 0.37         |
| PFHxA #                | TM135/PM122 | ug/l  | <0.001   |            | 1                    | 0                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.06         | <0.05        | -            | <0.05        | -            | 0.15         |
| PFHpA #                | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFOA #                 | TM135/PM122 | ug/l  | <0.00065 |            | 0.1                  | 0                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.1          | <0.05        | -            | <0.05        | -            | <0.05        |
| PFNA #                 | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDA #                 | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFUnA #                | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDoA                  | TM135/PM122 | ug/l  | <0.001   |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFTTrDA                | TM135/PM122 | ug/l  | <0.006   |            |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |



| Risks to Surface Water |                |       |          |           | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|------------------------|----------------|-------|----------|-----------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                        |                |       |          |           | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                        |                |       |          |           | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                        |                |       |          |           | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                        |                |       |          |           | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                   | Method         | Units | LOD      | AC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| PFTeDA                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHxDA                 | TM135/PM122    | ug/l  | <0.01    |           |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| PFODA                  | TM135/PM122    | ug/l  | <0.025   |           |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | 0.1          |
| PFBS #                 | TM135/PM122    | ug/l  | <0.001   |           | 3                    | 0                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | 0.06         | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFPeS #                | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHxS #                | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.12         | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHpS #                | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFOS #                 | TM135/PM122    | ug/l  | <0.00065 |           | 0.00065              | 2                   | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 3.23         | <0.05        | -            | <0.05        | -            | 0.1          |
| PFNS                   | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDS                   | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFUnDS                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDoDS                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFTrDS                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| HFPO-DA (Gen X)        | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| HFPO-TA                | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| DONA #                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFMOPrA                | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| NFDHA                  | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| PFMOBA                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFECHS                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.34         | <0.05        | -            | <0.05        | -            | <0.05        |
| 3:3 FTCA               | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| 5:3 FTCA               | TM135/PM122    | ug/l  | <0.01    |           |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| 7:3 FTCA               | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | 0.5          |
| PFEESA                 | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 9Cl-PF3ONS #           | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 11Cl-PF3OUdS           | TM135/PM122    | ug/l  | <0.001   |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 4:2 FTS                | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| 6:2 FTS                | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| 8:2 FTS                | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| FBSA                   | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| FHxSA                  | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| FOSA                   | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-MeFOSA               | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-EtFOSA               | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Me-FOSE                | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| Et-FOSE                | TM135/PM122    | ug/l  | <0.02    |           |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| N-MeFOSAA              | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-EtFOSAA              | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 8:2diPAP               | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | 0.4           | 0.2           | -             | <0.2         | 0.2          | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| FOUEA                  | TM135/PM122    | ug/l  | <0.005   |           |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
|                        |                |       |          |           |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,4-Dioxane*           | Subcontracted/ | ug/l  | <0.07    | EQS       | 0.46                 | 0                   | <8.40         | <7.00         | NA            | <7.00        | <7.70        | <7.70        | <35.00       | <7.00        | NA           | <8.40        |              |              |
| BOD (Settled) #        | TM58/PM0       | mg/l  | <1       |           |                      |                     | 3             | 3             | <2            | <6           | 16           | <3           | 11           | <3           | 15           | <2           | 27           | 26           |
| COD (Settled) #        | TM57/PM0       | mg/l  | <7       |           |                      |                     | 18            | 19            | 24            | 99           | 63           | 37           | 160          | 53           | 63           | 44           | 73           | 129          |

| Risks to Surface Water     |           |          |        |            | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|----------------------------|-----------|----------|--------|------------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                            |           |          |        |            | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                            |           |          |        |            | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                            |           |          |        |            | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                            |           |          |        |            | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                       | Method    | Units    | LOD    | SAC Source | GAC GW               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| Dissolved Organic Carbon # | TM60/PM0  | mg/l     | <2     |            |                      |                     | 3             | <2            | <2            | 27           | 21           | 8            | 53           | 15           | 19           | 10           | 14           | 26           |
| Free Ammonia as NH3        | TM176/PM0 | mg/l     | <0.007 |            |                      |                     | <0.007        | <0.007        | <0.007        | <0.007       | <0.007       | <0.007       | 0.186        | 0.009        | 0.032        | 0.01         | 0.073        | 0.021        |
| pH #                       | TM73/PM0  | pH units | <0.01  |            |                      |                     | 8.22          | 8.25          | 8.22          | 7.72         | 7.66         | 7.99         | 7.98         | 7.98         | 7.77         | 7.78         | 7.77         | 7.58         |



| Risks to Human Health                   |                         |       |        | Sample ID            |                     | WS2           | WS3           |
|-----------------------------------------|-------------------------|-------|--------|----------------------|---------------------|---------------|---------------|
|                                         |                         |       |        | Depth                |                     | None Supplied | None Supplied |
|                                         |                         |       |        | Sample Type          |                     | None Supplied | None Supplied |
|                                         |                         |       |        | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                         |                         |       |        | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                    | Method                  | Units | LOD    | GAC SW               | No. GAC Exceedances |               |               |
| Metals                                  |                         |       |        |                      |                     |               |               |
| Dissolved Arsenic #                     | TM30/PM14               | ug/l  | <2.5   |                      | 0                   | 1.31          | 2.42          |
| Dissolved Beryllium                     | TM30/PM14               | ug/l  | <0.5   |                      |                     | < 0.1         | < 0.1         |
| Dissolved Boron                         | TM30/PM14               | ug/l  | <12    |                      | 0                   | 200           | 410           |
| Dissolved Cadmium #                     | TM30/PM14               | ug/l  | <0.5   |                      | 0                   | 0.08          | < 0.02        |
| Dissolved Calcium #                     | TM30/PM14               | ug/l  | <0.2   |                      | 0                   | 170           | 270           |
| Total Dissolved Chromium #              | TM30/PM14               | ug/l  | <1.5   |                      | 0                   | 3.1           | 8.4           |
| Dissolved Copper #                      | TM30/PM14               | ug/l  | <7     |                      | 0                   | 7.8           | < 0.5         |
| Total Dissolved Iron #                  | TM30/PM14               | ug/l  | <20    |                      | 0                   | NA            | NA            |
| Dissolved Lead #                        | TM30/PM14               | ug/l  | <5     | 56                   | 0                   | 0.7           | 0.4           |
| Dissolved Mercury #                     | TM30/PM14               | ug/l  | <1     |                      | 0                   | < 0.05        | < 0.05        |
| Dissolved Nickel #                      | TM30/PM14               | ug/l  | <2     |                      |                     | 26            | 3.8           |
| Dissolved Selenium #                    | TM30/PM14               | ug/l  | <3     |                      | 0                   | 1.5           | 0.8           |
| Dissolved Vanadium #                    | TM30/PM14               | ug/l  | <1.5   |                      | 0                   | 3.3           | 3.4           |
| Dissolved Zinc #                        | TM30/PM14               | ug/l  | <3     |                      |                     | 12            | 0.8           |
| Total Hardness Dissolved (as CaCO3)     | TM30/PM14               | mg/l  | <1     |                      |                     |               |               |
| PAH MS                                  |                         |       |        |                      |                     |               |               |
| Naphthalene #                           | TM4/PM30                | ug/l  | <0.1   | 2                    | 0                   | < 0.01        | 0.47          |
| Acenaphthylene #                        | TM4/PM30                | ug/l  | <0.005 |                      |                     | < 0.01        | < 0.01        |
| Acenaphthene #                          | TM4/PM30                | ug/l  | <0.005 |                      |                     | < 0.01        | 0.57          |
| Fluorene #                              | TM4/PM30                | ug/l  | <0.005 |                      |                     | < 0.01        | 0.5           |
| Phenanthrene #                          | TM4/PM30                | ug/l  | <0.005 |                      |                     | < 0.01        | 1.68          |
| Anthracene #                            | TM4/PM30                | ug/l  | <0.005 | 0.1                  | 1                   | < 0.01        | 0.65          |
| Fluoranthene #                          | TM4/PM30                | ug/l  | <0.005 | 0.0063               | 1                   | < 0.01        | 2.22          |
| Pyrene #                                | TM4/PM30                | ug/l  | <0.005 |                      |                     | < 0.01        | 1.91          |
| Benzo(a)anthracene #                    | TM4/PM30                | ug/l  | <0.005 |                      |                     | < 0.01        | 0.76          |
| Chrysene #                              | TM4/PM30                | ug/l  | <0.005 |                      |                     | NA            | NA            |
| Benzo(bk)fluoranthene #                 | TM4/PM30                | ug/l  | <0.008 |                      |                     | NA            | NA            |
| Benzo(a)pyrene #                        | TM4/PM30                | ug/l  | <0.005 | 0.00017              | 1                   | < 0.01        | 0.74          |
| Indeno(123cd)pyrene #                   | TM4/PM30                | ug/l  | <0.005 | 0.00017              | 1                   | < 0.01        | 0.33          |
| Dibenzo(ah)anthracene #                 | TM4/PM30                | ug/l  | <0.005 |                      | 0                   | < 0.01        | < 0.01        |
| Benzo(ghi)perylene #                    | TM4/PM30                | ug/l  | <0.005 | 0.00017              | 1                   | < 0.01        | 0.4           |
| PAH 16 Total #                          | TM4/PM30                | ug/l  | <0.173 |                      | 0                   | < 0.16        | 12.1          |
| Benzo(b)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | 0.00017              | 1                   | < 0.01        | 0.88          |
| Benzo(k)fluoranthene                    | TM4/PM30                | ug/l  | <0.008 | 0.00017              | 1                   | < 0.01        | 0.34          |
| PAH Surrogate % Recovery                | TM4/PM30                | %     | <0     |                      |                     | NA            | NA            |
| VOC TICs                                | TM15/PM10               | None  |        |                      |                     | NA            | NA            |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l  | <0.1   |                      |                     | < 1.0         | < 1.0         |
| Benzene #                               | TM15/PM10               | ug/l  | <0.5   | 10                   | 0                   | < 1.0         | < 1.0         |
| Toluene #                               | TM15/PM10               | ug/l  | <5     | 74                   | 0                   | < 1.0         | < 1.0         |
| Ethylbenzene #                          | TM15/PM10               | ug/l  | <1     |                      |                     | < 1.0         | < 1.0         |
| m/p-Xylene #                            | TM15/PM10               | ug/l  | <2     | 30                   | 0                   | < 1.0         | < 1.0         |
| o-Xylene #                              | TM15/PM10               | ug/l  | <1     | 30                   | 0                   | < 1.0         | < 1.0         |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %     | <0     |                      |                     | NA            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %     | <0     |                      |                     | NA            | NA            |
| TPH CWG                                 |                         |       |        |                      |                     |               |               |
| Aliphatics                              |                         |       |        |                      |                     |               |               |
| >C5-C6 #                                | TM36/PM12               | ug/l  | <10    | 10                   | 0                   | < 1.0         | < 1.0         |
| >C6-C8 #                                | TM36/PM12               | ug/l  | <10    | 10                   | 0                   | < 1.0         | < 1.0         |
| >C8-C10 #                               | TM36/PM12               | ug/l  | <10    | 10                   | 0                   | < 1.0         | < 1.0         |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l  | <5     | 10                   | 1                   | < 10          | 200           |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l  | <10    | 10                   | 0                   | < 10          | < 10          |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l  | <10    |                      |                     | < 10          | < 10          |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l  | <10    |                      |                     | < 10          | < 10          |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                      |                     | < 10          | 200           |
| Aromatics                               |                         |       |        |                      |                     |               |               |
| >C5-EC7 #                               | TM36/PM12               | ug/l  | <10    | 10                   | 0                   | < 1.0         | < 1.0         |
| >EC7-EC8 #                              | TM36/PM12               | ug/l  | <10    | 10                   | 0                   | < 1.0         | < 1.0         |
| >EC8-EC10 #                             | TM36/PM12               | ug/l  | <10    | 10                   | 0                   | < 1.0         | < 1.0         |
| >EC10-EC12 #                            | TM5/PM16/PM30           | ug/l  | <5     | 10                   | 0                   | < 10          | < 10          |
| >EC12-EC16 #                            | TM5/PM16/PM30           | ug/l  | <10    | 10                   | 0                   | < 10          | < 10          |
| >EC16-EC21 #                            | TM5/PM16/PM30           | ug/l  | <10    |                      |                     | < 10          | < 10          |
| >EC21-EC35 #                            | TM5/PM16/PM30           | ug/l  | <10    |                      |                     | < 10          | < 10          |
| Total aromatics C5-35 #                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                      |                     | < 10          | < 10          |
| Total aliphatics and aromatics(C5-35) # | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                      |                     | NA            | NA            |
| Total Phenols HPLC                      | TM26/PM0                | mg/l  | <0.15  | 0.0077               | 0                   | < 10          | < 10          |
| Other Inorganics                        |                         |       |        |                      |                     |               |               |
| Sulphate as SO4 #                       | TM89/PM0                | mg/l  | <0.5   | 400                  | 0                   | 250           | 214           |
| Chloride #                              | TM38/PM0                | mg/l  | <0.3   | 250                  | 0                   | NA            | NA            |
| Nitrate as NO3 #                        | TM38/PM0                | mg/l  | <0.2   |                      |                     | NA            | NA            |
| Nitrite as NO2 #                        | TM38/PM0                | mg/l  | <0.02  |                      |                     | NA            | NA            |
| Ortho Phosphate as PO4 #                | TM38/PM0                | mg/l  | <0.06  |                      |                     | NA            | NA            |
| Total Cyanide #                         | TM89/PM0                | mg/l  | <0.01  | 1                    | 0                   | < 10          | < 10          |
| Ammoniacal Nitrogen as N #              | TM38/PM0                | mg/l  | <0.03  | 2.5                  | 2                   | 100           | 5300          |
| Hexavalent Chromium                     | TM38/PM0                | ug/l  | <6     | 3.4                  | 0                   | < 5.0         | < 5.0         |
| Total Dissolved Chromium III            | TM0/PM0                 | ug/l  | <6     | 4.7                  | 1                   | 3.1           | 8.4           |
| Total Alkalinity as CaCO3 #             | TM75/PM0                | mg/l  | <1     |                      |                     | 439           | 710           |
| BTEX                                    |                         |       |        |                      |                     |               |               |
| MTBE #                                  | TM36/PM12               | ug/l  | <5     |                      |                     | < 1.0         | < 1.0         |
| Benzene #                               | TM36/PM12               | ug/l  | <5     | 10                   | 0                   | < 1.0         | < 1.0         |
| Toluene #                               | TM36/PM12               | ug/l  | <5     | 74                   | 0                   | < 1.0         | < 1.0         |
| Ethylbenzene #                          | TM36/PM12               | ug/l  | <5     | 10                   | 0                   | < 1.0         | < 1.0         |
| m/p-Xylene #                            | TM36/PM12               | ug/l  | <5     | 30                   | 0                   | < 1.0         | < 1.0         |
| o-Xylene #                              | TM36/PM12               | ug/l  | <5     | 30                   | 0                   | < 1.0         | < 1.0         |
| Phenols                                 |                         |       |        |                      |                     |               |               |
| 2-Chlorophenol #                        | TM16/PM30               | ug/l  | <0.5   | 50                   | 0                   | NA            | NA            |
| 2-Methylphenol #                        | TM16/PM30               | ug/l  | <0.5   |                      |                     | NA            | NA            |
| 2-Nitrophenol                           | TM16/PM30               | ug/l  | <0.5   |                      |                     | NA            | NA            |
| 2,4-Dichlorophenol #                    | TM16/PM30               | ug/l  | <1     | 4                    | 0                   | NA            | NA            |
| 2,4-Dimethylphenol                      | TM16/PM30               | ug/l  | <0.5   |                      |                     | NA            | NA            |

| Risks to Human Health                     |           |       |      | Sample ID            |                     | WS2           | WS3           |
|-------------------------------------------|-----------|-------|------|----------------------|---------------------|---------------|---------------|
|                                           |           |       |      | Depth                |                     | None Supplied | None Supplied |
|                                           |           |       |      | Sample Type          |                     | None Supplied | None Supplied |
|                                           |           |       |      | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                           |           |       |      | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                      | Method    | Units | LOD  | GAC SW               | No. GAC Exceedances |               |               |
| 2,4,5-Trichlorophenol <sup>#</sup>        | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| 2,4,6-Trichlorophenol                     | TM16/PM30 | ug/l  | <0.5 |                      |                     | NA            | NA            |
| 4-Chloro-3-methylphenol <sup>#</sup>      | TM16/PM30 | ug/l  | <1   | 40                   | 0                   | NA            | NA            |
| 4-Methylphenol                            | TM16/PM30 | ug/l  | <10  |                      |                     | NA            | NA            |
| 4-Nitrophenol                             | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| Pentachlorophenol                         | TM16/PM30 | ug/l  | <1   | 0.4                  | 0                   | NA            | NA            |
| Phenol                                    | TM16/PM30 | ug/l  |      | 7.7                  | 0                   | < 0.05        | < 0.05        |
| PAHs                                      |           |       |      |                      |                     |               |               |
| 2-Chloronaphthalene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| 2-Methylnaphthalene <sup>#</sup>          | TM16/PM30 | ug/l  |      |                      |                     | < 0.05        | 0.23          |
| Phthalates                                |           |       |      |                      |                     |               |               |
| Bis(2-ethylhexyl) phthalate               | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| Butylbenzyl phthalate                     | TM16/PM30 | ug/l  | <1.5 | 7.5                  | 0                   | NA            | NA            |
| Di-n-butyl phthalate <sup>#</sup>         | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| Di-n-Octyl phthalate                      | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| Diethyl phthalate <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | 200                  | 0                   | NA            | NA            |
| Dimethyl phthalate                        | TM16/PM30 | ug/l  |      | 800                  | 0                   | NA            | NA            |
| Other SVOCs                               |           |       |      |                      |                     |               |               |
| 1,2,4-Trichlorobenzene <sup>#</sup>       | TM16/PM30 | ug/l  | <1   |                      |                     | < 0.05        | < 0.05        |
| 1,2-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |                      |                     | < 0.05        | < 0.05        |
| 1,3-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |                      |                     | < 0.05        | < 0.05        |
| 1,4-Dichlorobenzene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |                      |                     | < 0.05        | < 0.05        |
| 2,4-Dinitrotoluene <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |                      |                     | < 0.05        | < 0.05        |
| 2,6-Dinitrotoluene                        | TM16/PM30 | ug/l  | <1   |                      |                     | < 0.05        | < 0.05        |
| 2-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |                      |                     | NA            | NA            |
| 3-Nitroaniline                            | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| 4-Bromophenylphenylether <sup>#</sup>     | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| 4-Chloroaniline                           | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| 4-Chlorophenylphenylether <sup>#</sup>    | TM16/PM30 | ug/l  | <0.5 |                      |                     | NA            | NA            |
| 4-Nitroaniline                            | TM16/PM30 | ug/l  | <0.5 |                      |                     | < 0.05        | < 0.05        |
| Azobenzene <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |                      |                     | < 0.05        | < 0.05        |
| Bis(2-chloroethoxy)methane <sup>#</sup>   | TM16/PM30 | ug/l  | <1   |                      |                     | < 0.05        | < 0.05        |
| Bis(2-chloroethyl)ether <sup>#</sup>      | TM16/PM30 | ug/l  | <0.5 |                      |                     | < 0.05        | < 0.05        |
| Carbazole <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 |                      |                     | < 0.05        | 0.41          |
| Dibenzofuran <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |                      |                     | < 0.05        | 0.3           |
| Hexachlorobenzene <sup>#</sup>            | TM16/PM30 | ug/l  | <1   | 0.05                 | 0                   | < 0.05        | < 0.05        |
| Hexachlorobutadiene <sup>#</sup>          | TM16/PM30 | ug/l  | <1   | 0.6                  | 0                   | < 0.05        | < 0.05        |
| Hexachlorocyclopentadiene                 | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| Hexachloroethane <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |                      |                     | < 0.05        | < 0.05        |
| Isophorone <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 |                      |                     | < 0.05        | < 0.05        |
| Nitrobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <0   |                      |                     | < 0.05        | < 0.05        |
| N-nitrosodi-n-propylamine <sup>#</sup>    | TM16/PM30 | ug/l  | <1   |                      |                     | NA            | NA            |
| Pyrene                                    | ISO 17025 | ug/l  | 0.01 |                      |                     | < 0.01        | 1.9           |
| Surrogate Recovery 2-Fluorobiphenyl       | TM16/PM30 | %     | <0   |                      |                     | NA            | NA            |
| Surrogate Recovery p-Terphenyl-d14        | TM16/PM30 | %     |      |                      |                     | NA            | NA            |
| VOC MS                                    |           |       |      |                      |                     |               |               |
| 1,1,1,2-Tetrachloroethane <sup>#</sup>    | TM15/PM10 | ug/l  | <2   |                      |                     | < 1.0         | < 1.0         |
| 1,1,1-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   |                      |                     | < 1.0         | < 1.0         |
| 1,1,2,2-Tetrachloroethane                 | TM15/PM10 | ug/l  | <4   |                      |                     | < 1.0         | < 1.0         |
| 1,1,2-Trichloroethane <sup>#</sup>        | TM15/PM10 | ug/l  | <2   |                      |                     | < 1.0         | < 1.0         |
| 1,1-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup> | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 1,1-Dichloropropene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 1,2,3-Trichlorobenzene                    | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 1,2,3-Trichloropropane <sup>#</sup>       | TM15/PM10 | ug/l  | <3   | 20                   | 0                   | < 1.0         | < 1.0         |
| 1,2,4-Trichlorobenzene                    | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 1,2,4-Trimethylbenzene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 1,2-Dibromo-3-chloropropane               | TM15/PM10 | ug/l  | <2   |                      |                     | < 1.0         | < 1.0         |
| 1,2-Dibromoethane <sup>#</sup>            | TM15/PM10 | ug/l  | <2   |                      |                     | < 1.0         | < 1.0         |
| 1,2-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 1,2-Dichloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   | 2.5                  | 0                   | < 1.0         | < 1.0         |
| 1,2-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | 100                  | 0                   | < 1.0         | < 1.0         |
| 1,3,5-Trimethylbenzene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 1,3-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   | 12                   | 0                   | < 1.0         | < 1.0         |
| 1,3-Dichloropropane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | 10                   | 0                   | < 1.0         | < 1.0         |
| 1,4-Dichlorobenzene <sup>#</sup>          | TM15/PM10 | ug/l  | <3   | 10                   | 0                   | < 1.0         | < 1.0         |
| 2,2-Dichloropropane                       | TM15/PM10 | ug/l  | <1   | 10                   | 0                   | < 1.0         | < 1.0         |
| 2-Chlorotoluene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 4-Chlorotoluene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| 4-Isopropyltoluene <sup>#</sup>           | TM15/PM10 | ug/l  | <3   |                      |                     |               |               |
| Benzene <sup>#</sup>                      | TM15/PM10 | ug/l  | <0.5 |                      |                     | < 1.0         | < 1.0         |
| Bromobenzene <sup>#</sup>                 | TM15/PM10 | ug/l  | <2   | 74                   | 0                   | < 1.0         | < 1.0         |
| Bromochloromethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   |                      |                     |               |               |
| Bromodichloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | 400                  | 0                   | < 1.0         | < 1.0         |
| Bromoform <sup>#</sup>                    | TM15/PM10 | ug/l  | <2   | 10                   | 0                   |               |               |
| Bromomethane                              | TM15/PM10 | ug/l  | <1   |                      |                     | < 1.0         | < 1.0         |
| Carbon tetrachloride <sup>#</sup>         | TM15/PM10 | ug/l  | <2   |                      |                     |               |               |
| Chlorobenzene <sup>#</sup>                | TM15/PM10 | ug/l  | <2   |                      |                     | < 1.0         | < 1.0         |
| Chloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   |                      |                     | < 1.0         | < 1.0         |
| Chloroform <sup>#</sup>                   | TM15/PM10 | ug/l  | <2   |                      |                     | < 1.0         | < 1.0         |
| Chloromethane <sup>#</sup>                | TM15/PM10 | ug/l  | <3   | 10                   | 0                   | < 1.0         | < 1.0         |
| cis-1-2-Dichloroethene <sup>#</sup>       | TM15/PM10 | ug/l  | <3   | 30                   | 0                   | < 1.0         | < 1.0         |
| cis-1-3-Dichloropropene                   | TM15/PM10 | ug/l  | <2   | 30                   | 0                   | < 1.0         | < 1.0         |
| Dibromochloromethane <sup>#</sup>         | TM15/PM10 | ug/l  | <2   | 50                   | 0                   | < 1.0         | < 1.0         |
| Dibromomethane <sup>#</sup>               | TM15/PM10 | ug/l  | <3   |                      |                     |               |               |
| Dichlorodifluoromethane                   | TM15/PM10 | ug/l  | <2   |                      |                     |               |               |

| Risks to Human Health                    |                |          |        | Sample ID            |                     | WS2           | WS3           |
|------------------------------------------|----------------|----------|--------|----------------------|---------------------|---------------|---------------|
|                                          |                |          |        | Depth                |                     | None Supplied | None Supplied |
|                                          |                |          |        | Sample Type          |                     | None Supplied | None Supplied |
|                                          |                |          |        | Sampled Date         |                     | 02/08/2021    | 02/08/2021    |
|                                          |                |          |        | Sample Received Date |                     | None Supplied | None Supplied |
| Test                                     | Method         | Units    | LOD    | GAC SW               | No. GAC Exceedances |               |               |
| Dichloromethane (DCM) <sup>#</sup>       | TM15/PM10      | ug/l     | <3     |                      |                     | < 1.0         | < 1.0         |
| Ethylbenzene <sup>#</sup>                | TM15/PM10      | ug/l     | <1     |                      |                     | < 1.0         | < 1.0         |
| Hexachlorobutadiene                      | TM15/PM10      | ug/l     | <3     |                      |                     | < 1.0         | < 1.0         |
| Isopropylbenzene <sup>#</sup>            | TM15/PM10      | ug/l     | <3     |                      |                     | < 1.0         | < 1.0         |
| m/p-Xylene <sup>#</sup>                  | TM15/PM10      | ug/l     | <2     |                      |                     | < 1.0         | < 1.0         |
| Methyl Tertiary Butyl Ether <sup>#</sup> | TM15/PM10      | ug/l     | <0.1   |                      |                     | < 1.0         | < 1.0         |
| Naphthalene                              | TM15/PM10      | ug/l     | <2     |                      |                     |               |               |
| n-Butylbenzene <sup>#</sup>              | TM15/PM10      | ug/l     | <3     |                      |                     |               |               |
| o-Xylene <sup>#</sup>                    | TM15/PM10      | ug/l     | <1     |                      |                     | < 1.0         | < 1.0         |
| Propylbenzene <sup>#</sup>               | TM15/PM10      | ug/l     | <3     |                      |                     | < 1.0         | < 1.0         |
| sec-Butylbenzene <sup>#</sup>            | TM15/PM10      | ug/l     | <3     |                      |                     | < 1.0         | < 1.0         |
| Styrene                                  | TM15/PM10      | ug/l     | <2     |                      |                     | < 1.0         | < 1.0         |
| Surrogate Recovery 4-Bromofluorobenzene  | TM15/PM10      | %        | <0     |                      |                     |               |               |
| Surrogate Recovery Toluene D8            | TM15/PM10      | %        | <0     |                      |                     |               |               |
| tert-Butylbenzene <sup>#</sup>           | TM15/PM10      | ug/l     | <3     |                      |                     | < 1.0         | < 1.0         |
| Tetrachloroethene (PCE) <sup>#</sup>     | TM15/PM10      | ug/l     | <3     |                      |                     | < 1.0         | < 1.0         |
| Toluene <sup>#</sup>                     | TM15/PM10      | ug/l     | <5     | 0.4                  | 0                   | < 1.0         | < 1.0         |
| trans-1-2-Dichloroethene <sup>#</sup>    | TM15/PM10      | ug/l     | <3     | 0.5                  | 0                   | < 1.0         | < 1.0         |
| trans-1-3-Dichloropropene                | TM15/PM10      | ug/l     | <2     | 2                    | 0                   | < 1.0         | < 1.0         |
| Trichloroethene (TCE) <sup>#</sup>       | TM15/PM10      | ug/l     | <3     | 0.4                  | 0                   | < 1.0         | < 1.0         |
| Trichlorofluoromethane <sup>#</sup>      | TM15/PM10      | ug/l     | <3     |                      |                     | < 1.0         | < 1.0         |
| Vinyl Chloride <sup>#</sup>              | TM15/PM10      | ug/l     | <0.1   |                      |                     | < 1.0         | < 1.0         |
|                                          |                |          |        |                      |                     |               |               |
| 1,4-Dioxane*                             | Subcontracted/ | ug/l     | <0.07  | 50                   | 0                   | NA            | NA            |
| BOD (Settled) <sup>#</sup>               | TM58/PM0       | mg/l     | <1     |                      | 0                   | NA            | NA            |
| COD (Settled) <sup>#</sup>               | TM57/PM0       | mg/l     | <7     |                      | 0                   | NA            | NA            |
| Dissolved Organic Carbon <sup>#</sup>    | TM60/PM0       | mg/l     | <2     |                      | 0                   | 8.21          | 21.4          |
| Free Ammonia as NH3                      | TM176/PM0      | mg/l     | <0.007 |                      | 0                   | 120           | 6500          |
| pH <sup>#</sup>                          | TM73/PM0       | pH units | <0.01  |                      | 0                   | 7.1           | 6.9           |

| Risk to Human Health<br>(Commercial/ Industrial) |           |       |        |                            |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |
|--------------------------------------------------|-----------|-------|--------|----------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
|                                                  |           |       |        |                            | Sample ID           | BH2520       | BH2518       | WS15         | BH2513       | WS16         | WS17         | WS18         | WS06         | WS08         | WS07         | BH2527       | BH2526       | BH2524       | BH2525       | BH2517       | BH2514       | BH2522       | WS19         | WS13         | SW01         |               |
|                                                  |           |       |        |                            | Depth               | 2.00         | 0.78         | 2.07         | 2.24         | 3.42         | 3.00         | 3.00         | 2.13         | 3.22         | 3.38         | 1.34         | 2.20         | 2.20         | 2.46         | 3.82         | 3.08         | 2.50         | 3.48         | 2.00         | SURFACE      |               |
|                                                  |           |       |        |                            | Sample Type         | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water |
|                                                  |           |       |        |                            | Sampled Date        | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 28/09/2023   | 29/09/2023    |
| Sample Received Date                             |           |       |        |                            | 29/09/2023          | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   | 29/09/2023   |              |               |
| Test                                             | Method    | Units | LOD    | GAC Commercial/ Industrial | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |
| Metals                                           |           |       |        |                            |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |
| Dissolved Arsenic #                              | TM30/PM14 | ug/l  | <2.5   |                            |                     | 2.8          | 5            | 9.9          | 13.1         | 5.2          | <2.5         | <2.5         | <2.5         | 26.9         | <2.5         | 18.3         | 30.3         | <2.5         | 29.2         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5         | <2.5          |
| Dissolved Beryllium                              | TM30/PM14 | ug/l  | <0.5   |                            |                     | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          |
| Dissolved Boron                                  | TM30/PM14 | ug/l  | <12    |                            |                     | 267          | 184          | 264          | 1814         | 152          | 165          | 222          | 569          | 508          | 578          | 211          | 70           | 1108         | 71           | 2244         | 1923         | 2104         | 960          | 584          | 61           | 53            |
| Dissolved Cadmium #                              | TM30/PM14 | ug/l  | <0.5   |                            |                     | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          |
| Dissolved Calcium #                              | TM30/PM14 | ug/l  | <0.2   |                            |                     | -            | 130.6        | -            | -            | 254.5        | -            | 166.2        | 358.2        | 564.8        | 284          | 363.4        | -            | -            | -            | 194.5        | 294.2        | -            | -            | 292.6        | 102.3        | 109.8         |
| Total Dissolved Chromium #                       | TM30/PM14 | ug/l  | <1.5   |                            |                     | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | 4.5          | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5          |
| Dissolved Copper #                               | TM30/PM14 | ug/l  | <7     |                            |                     | <7           | <7           | 14           | <7           | <7           | <7           | <7           | 41           | <7           | 39           | 17           | 46           | <7           | 31           | <7           | 12           | <7           | 12           | <7           | <7           | <7            |
| Total Dissolved Iron #                           | TM30/PM14 | ug/l  | <20    |                            |                     | 236          | 264          | 8534         | 21474        | 3971         | 55           | 106          | 28260        | 4827         | 29243        | 12531        | 33388        | 3744         | 22159        | 2477         | 7819         | 1486         | 6826         | 1080         | 30           | <20           |
| Dissolved Lead #                                 | TM30/PM14 | ug/l  | <5     |                            |                     | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            |
| Dissolved Magnesium #                            | TM30/PM14 | ug/l  | <0.1   |                            |                     | -            | 3.8          | -            | -            | 14.6         | -            | 12.8         | 33.6         | 41.5         | 23.7         | 20.3         | -            | -            | -            | 30.9         | 38.9         | -            | -            | 26.4         | 5.1          | 4.3           |
| Dissolved Mercury #                              | TM30/PM14 | ug/l  | <1     | 56                         | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1            |
| Dissolved Nickel #                               | TM30/PM14 | ug/l  | <2     |                            |                     | 3            | <2           | 4            | 2            | 2            | 4            | 28           | <2           | <2           | <2           | <2           | 8            | 3            | 9            | <2           | <2           | <2           | 34           | <2           | <2           | <2            |
| Dissolved Potassium #                            | TM30/PM14 | mg/l  | <0.1   |                            |                     | -            | 25.2         | -            | -            | 8            | -            | 6.2          | 30.6         | 25.4         | 16.8         | 4.5          | -            | -            | -            | 31.7         | 24           | -            | -            | 30.3         | 8.2          | 8.8           |
| Dissolved Selenium #                             | TM30/PM14 | ug/l  | <3     |                            |                     | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3            |
| Dissolved Sodium #                               | TM30/PM14 | mg/l  | <0.1   |                            |                     | -            | 29.6         | -            | -            | 69.6         | -            | 48.2         | 29.4         | 52.6         | 56.3         | 98.4         | -            | -            | -            | 146.5        | 57.2         | -            | -            | 26.4         | 42.5         | 46.7          |
| Dissolved Vanadium #                             | TM30/PM14 | ug/l  | <1.5   |                            |                     | 7            | 4.9          | 2.5          | 5.8          | 2.6          | 2.2          | <1.5         | 5.1          | 3.2          | 4.8          | 3.9          | 5            | 2.7          | 11.9         | 3.8          | 3.7          | 7.1          | 2.9          | 2.5          | 1.6          | 1.9           |
| Dissolved Zinc #                                 | TM30/PM14 | ug/l  | <3     |                            |                     | 7            | <3           | 6            | 3            | <3           | 15           | 217          | 7            | 5            | 7            | 4            | 5            | <3           | 9            | 5            | 3            | <3           | 413          | <3           | 11           | 10            |
| Total Hardness Dissolved (as CaCO3)              | TM30/PM14 | mg/l  | <1     |                            |                     | 403          | 342          | 555          | 1156         | 698          | 391          | 469          | 1037         | 1586         | 810          | 994          | 738          | 844          | 539          | 616          | 899          | 922          | 947          | 842          | 277          | 293           |
| PAH MS                                           |           |       |        |                            |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |
| Naphthalene #                                    | TM4/PM30  | ug/l  | <0.1   | 23000                      | 0                   | <0.01        | <0.01        | <0.01        | 0.05         | <0.01        | <0.01        | <0.01        | 0.23         | 0.02         | 0.04         | 0.03         | 0.02         | <0.01        | 0.01         | <0.01        | <0.01        | 0.03         | 0.01         | <0.01        | <0.01        | <0.01         |
| Acenaphthylene #                                 | TM4/PM30  | ug/l  | <0.005 | 20000000                   | 0                   | <0.005       | <0.005       | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.018        | <0.005       | <0.005       | 0.028        | <0.005       | <0.005       | <0.005       | 0.044        | <0.005       | 0.014        | <0.005       | <0.005        |
| Acenaphthene #                                   | TM4/PM30  | ug/l  | <0.005 | 15000000                   | 0                   | 0.165        | 0.029        | 0.013        | 0.148        | <0.005       | <0.005       | <0.005       | 1.14         | 0.334        | 0.608        | 0.007        | 0.014        | 2.5          | <0.005       | 0.146        | 0.217        | 1.59         | <0.005       | 1.31         | <0.005       | <0.005        |
| Fluorene #                                       | TM4/PM30  | ug/l  | <0.005 | 18000000                   | 0                   | <0.005       | <0.005       | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | 0.864        | 0.013        | 0.318        | <0.005       | 0.008        | 1.31         | <0.005       | <0.005       | 0.045        | 0.286        | <0.005       | 0.145        | <0.005       | <0.005        |
| Phenanthrene #                                   | TM4/PM30  | ug/l  | <0.005 |                            |                     | 0.024        | <0.005       | 0.008        | 0.042        | <0.005       | <0.005       | <0.005       | 0.332        | 0.009        | 0.02         | <0.005       | 0.007        | 0.009        | 0.007        | <0.005       | 0.017        | <0.005       | 0.011        | <0.005       | <0.005       | <0.005        |
| Anthracene #                                     | TM4/PM30  | ug/l  | <0.005 |                            |                     | 0.011        | <0.005       | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | 0.093        | 0.007        | 0.025        | <0.005       | <0.005       | 0.075        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.018        | <0.005       | <0.005        |
| Fluoranthene #                                   | TM4/PM30  | ug/l  | <0.005 |                            |                     | 0.161        | <0.005       | 0.013        | <0.025       | <0.005       | 0.008        | <0.005       | 0.329        | 0.064        | <0.005       | <0.005       | 0.006        | 0.426        | <0.005       | 0.031        | 0.008        | 0.012        | 0.007        | 0.566        | <0.005       | 0.006         |
| Pyrene #                                         | TM4/PM30  | ug/l  | <0.005 |                            |                     | 0.181        | <0.005       | 0.012        | <0.025       | <0.005       | 0.009        | <0.005       | 0.228        | 0.05         | 0.1          | <0.005       | 0.006        | 0.327        | <0.005       | 0.045        | 0.007        | 0.021        | 0.008        | 0.204        | <0.005       | 0.006         |
| Benzo(a)anthracene #                             | TM4/PM30  | ug/l  | <0.005 |                            |                     | 0.052        | <0.005       | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | 0.013        | <0.005       | <0.005       | <0.005       | <0.005       | 0.034        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.034        | <0.005       | <0.005        |
| Chrysene #                                       | TM4/PM30  | ug/l  | <0.005 |                            |                     | 0.097        | <0.005       | <0.005       | <0.025       | <0.005       | <0.005       | <0.005       | 0.033        | <0.005       | <0.005       | <0.005       | <0.005       | 0.058        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.056        | <0.005       | <0.005        |
| Benzo(bk)fluoranthene #                          | TM4/PM30  | ug/l  | <0.008 |                            |                     | 0.25         | <0.01        | 0.02         | <0.05        | <0.01        | <0.01        | <0.01        | 0.01         | <0.0         |              |              |              |              |              |              |              |              |              |              |              |               |

|                                         |                         |      |      |          |   |  |      |     |     |      |     |      |      |      |      |     |     |     |      |      |     |     |      |      |     |  |
|-----------------------------------------|-------------------------|------|------|----------|---|--|------|-----|-----|------|-----|------|------|------|------|-----|-----|-----|------|------|-----|-----|------|------|-----|--|
| 1,3-Dichloropropane #                   | TM15/PM10               | ug/l | <2   |          |   |  | <2   |     |     | <2   |     |      | <2   |      | <2   |     |     | <2  |      | <2   |     |     | <2   |      | <2  |  |
| 1,4-Dichlorobenzene #                   | TM15/PM10               | ug/l | <3   | 460000   | 0 |  | <0.5 |     |     | <0.5 |     | <0.5 | <0.5 | 1    | <0.5 |     | 0.8 |     | <0.5 | <0.5 |     |     | <0.5 | <0.5 |     |  |
| 2,2-Dichloropropane                     | TM15/PM10               | ug/l | <1   |          |   |  | <1   |     |     | <1   |     | <1   | <1   | <1   | <1   |     | <1  |     | <1   | <1   |     |     | <1   | <1   |     |  |
| 2-Chlorotoluene #                       | TM15/PM10               | ug/l | <3   | 640000   | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| 4-Chlorotoluene #                       | TM15/PM10               | ug/l | <3   |          |   |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| 4-Isopropyltoluene #                    | TM15/PM10               | ug/l | <3   |          |   |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Benzene #                               | TM15/PM10               | ug/l | <0.5 | 20000    | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Bromobenzene #                          | TM15/PM10               | ug/l | <2   | 20000    | 0 |  | <5   |     |     | <5   |     | <5   | <5   | <5   | <5   |     | <5  |     | <5   | <5   |     |     | <5   | <5   |     |  |
| Bromochloromethane #                    | TM15/PM10               | ug/l | <2   |          |   |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Bromodichloromethane #                  | TM15/PM10               | ug/l | <2   | 1600     | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Bromoform #                             | TM15/PM10               | ug/l | <2   | 400000   | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| Bromomethane                            | TM15/PM10               | ug/l | <1   |          |   |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Carbon tetrachloride #                  | TM15/PM10               | ug/l | <2   | 770      | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Chlorobenzene #                         | TM15/PM10               | ug/l | <2   | 15000    | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Chloroethane #                          | TM15/PM10               | ug/l | <3   | 1000000  | 0 |  | <2   |     |     | <2   |     | <2   | <2   | 8    | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Chloroform #                            | TM15/PM10               | ug/l | <2   | 85000    | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Chloromethane #                         | TM15/PM10               | ug/l | <3   | 1400     | 0 |  | <1   |     |     | <1   |     | <1   | <1   | <1   | <1   |     | <1  |     | <1   | <1   |     |     | <1   | <1   |     |  |
| cis-1-2-Dichloroethene #                | TM15/PM10               | ug/l | <3   | 13000    | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| cis-1-3-Dichloropropene                 | TM15/PM10               | ug/l | <2   |          |   |  | <1   |     |     | <1   |     | <1   | <1   | <1   | <1   |     | <1  |     | <1   | <1   |     |     | <1   | <1   |     |  |
| Dibromochloromethane #                  | TM15/PM10               | ug/l | <2   |          |   |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Dibromomethane #                        | TM15/PM10               | ug/l | <3   |          |   |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Dichlorodifluoromethane                 | TM15/PM10               | ug/l | <2   |          |   |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| Dichloromethane (DCM) #                 | TM15/PM10               | ug/l | <3   |          |   |  | <4   |     |     | <4   |     | <4   | <4   | <4   | <4   |     | <4  |     | <4   | <4   |     |     | <4   | <4   |     |  |
| Ethylbenzene #                          | TM15/PM10               | ug/l | <1   | 960000   | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| Hexachlorobutadiene                     | TM15/PM10               | ug/l | <3   |          |   |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| Isopropylbenzene #                      | TM15/PM10               | ug/l | <3   | 86000    | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| m/p-Xylene #                            | TM15/PM10               | ug/l | <2   | 940000   | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l | <0.1 | 7800000  | 0 |  | <1   |     |     | <1   |     | <1   | <1   | <1   | <1   |     | <1  |     | <1   | <1   |     |     | <1   | <1   |     |  |
| Naphthalene                             | TM15/PM10               | ug/l | <2   | 23000    | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| n-Butylbenzene #                        | TM15/PM10               | ug/l | <3   |          |   |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| o-Xylene #                              | TM15/PM10               | ug/l | <1   | 1100000  | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| Propylbenzene #                         | TM15/PM10               | ug/l | <3   | 240000   | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| sec-Butylbenzene #                      | TM15/PM10               | ug/l | <3   |          |   |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| Styrene                                 | TM15/PM10               | ug/l | <2   | 810000   | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| tert-Butylbenzene #                     | TM15/PM10               | ug/l | <3   |          |   |  | <1   |     |     | <1   |     | <1   | <1   | <1   | <1   |     | <1  |     | <1   | <1   |     |     | <1   | <1   |     |  |
| Tetrachloroethene (PCE) #               | TM15/PM10               | ug/l | <3   | 6100     | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| Toluene #                               | TM15/PM10               | ug/l | <5   | 21000000 | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| trans-1-2-Dichloroethene #              | TM15/PM10               | ug/l | <3   | 16000    | 0 |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | <2   |     |     | <2   | <2   |     |  |
| trans-1-3-Dichloropropene               | TM15/PM10               | ug/l | <2   |          |   |  | <1   |     |     | <1   |     | <1   | <1   | <1   | <1   |     | <1  |     | <1   | <1   |     |     | <1   | <1   |     |  |
| Trichloroethene (TCE) #                 | TM15/PM10               | ug/l | <3   | 310      | 0 |  | <3   |     |     | <3   |     | <3   | <3   | <3   | <3   |     | <3  |     | <3   | <3   |     |     | <3   | <3   |     |  |
| Trichlorofluoromethane #                | TM15/PM10               | ug/l | <3   |          |   |  | <2   |     |     | <2   |     | <2   | <2   | <2   | <2   |     | <2  |     | <2   | 9    |     |     | <2   | <2   |     |  |
| Vinyl Chloride #                        | TM15/PM10               | ug/l | <0.1 | 1200     | 0 |  | <1   |     |     | <1   |     | <1   | <1   | <1   | <1   |     | <1  |     | <1   | <1   |     |     | <1   | <1   |     |  |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %    | <0   |          |   |  | 105  |     |     | 124  |     | 100  | 95   | 99   | 109  |     | 106 |     | 103  | 94   |     |     | 107  | 90   |     |  |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %    | <0   |          |   |  | 108  |     |     | 124  |     | 98   | 94   | 96   | 110  |     | 103 |     | 98   | 92   |     |     | 102  | 87   |     |  |
| Methyl Tertiary Butyl Ether #           | TM15/PM10               | ug/l | <0.1 | 7800000  | 0 |  | <5   | <5  | <5  | <5   | <5  | <5   | <5   | <5   | <5   | <5  | <5  | <5  | <5   | <5   | <5  | <5  | <5   | <0.1 | <5  |  |
| Benzene #                               | TM15/PM10               | ug/l | <0.5 | 20000    | 0 |  | <5   | <5  | <5  | <5   | <5  | <5   | <5   | <5   | <5   | <5  | <5  | <5  | <5   | <5   | <5  | <5  | <5   | <0.5 | <5  |  |
| Toluene #                               | TM15/PM10               | ug/l | <5   | 21000000 | 0 |  | <5   | <5  | <5  | <5   | <5  | <5   | <5   | <5   | <5   | <5  | <5  | <5  | <5   | <5   | <5  | <5  | <5   | <5   | <5  |  |
| Ethylbenzene #                          | TM15/PM10               | ug/l | <1   | 960000   | 0 |  | <5   | <5  | <5  | <5   | <5  | <5   | <5   | <5   | <5   | <5  | <5  | <5  | <5   | <5   | <5  | <5  | <5   | <1   | <5  |  |
| m/p-Xylene #                            | TM15/PM10               | ug/l | <2   | 940000   | 0 |  | <5   | <5  | <5  | <5   | <5  | <5   | <5   | <5   | <5   | <5  | <5  | <5  | <5   | <5   | <5  | <5  | <5   | <2   | <5  |  |
| o-Xylene #                              | TM15/PM10               | ug/l | <1   | 1100000  | 0 |  | <5   | <5  | <5  | <5   | <5  | <5   | <5   | <5   | <5   | <5  | <5  | <5  | <5   | <5   | <5  | <5  | <5   | <1   | <5  |  |
| Surrogate Recovery Toluene D8           | TM15/PM10               | %    | <0   |          |   |  |      |     |     |      |     |      |      |      |      |     |     |     |      |      |     |     |      | 90   |     |  |
| Surrogate Recovery 4-Bromofluorobenzene | TM15/PM10               | %    | <0   |          |   |  |      |     |     |      |     |      |      |      |      |     |     |     |      |      |     |     |      | 87   |     |  |
| TPH CWG                                 |                         |      |      |          |   |  |      |     |     |      |     |      |      |      |      |     |     |     |      |      |     |     |      |      |     |  |
| Aliphatics                              |                         |      |      |          |   |  |      |     |     |      |     |      |      |      |      |     |     |     |      |      |     |     |      |      |     |  |
| >C5-C6 #                                | TM36/PM12               | ug/l | <10  | 190000   | 0 |  | <10  | <10 | <10 | <10  | <10 | <10  | <10  | <10  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| >C6-C8 #                                | TM36/PM12               | ug/l | <10  | 150000   | 0 |  | <10  | <10 | <10 | <10  | <10 | <10  | <10  | <10  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| >C8-C10 #                               | TM36/PM12               | ug/l | <10  | 5700     | 0 |  | <10  | <10 | <10 | <10  | <10 | <10  | <10  | <10  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| >C10-C12 #                              | TM5/PM16/PM30           | ug/l | <5   | 3600     | 0 |  | <5   | <5  | <5  | <5   | <5  | 54   | <5   | 117  | <5   | <5  | <5  | <5  | <5   | <5   | <5  | <5  | <5   | <5   | <5  |  |
| >C12-C16 #                              | TM5/PM16/PM30           | ug/l | <10  |          |   |  | <10  | <10 | <10 | <10  | <10 | 240  | <10  | 690  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| >C16-C21 #                              | TM5/PM16/PM30           | ug/l | <10  |          |   |  | <10  | <10 | <10 | <10  | <10 | 470  | <10  | 250  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| >C21-C35 #                              | TM5/PM16/PM30           | ug/l | <10  |          |   |  | <10  | <10 | <10 | <10  | <10 | 510  | <10  | 240  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| Total aliphatics C5-35 #                | TM5/TM36/PM12/PM16/PM30 | ug/l | <10  |          |   |  | <10  | <10 | <10 | <10  | <10 | 1274 | <10  | 1297 | <10  | <10 | 27  | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| Aromatics                               |                         |      |      |          |   |  |      |     |     |      |     |      |      |      |      |     |     |     |      |      |     |     |      |      |     |  |
| >C5-EC7 #                               | TM36/PM12               | ug/l | <10  | 2000     | 0 |  | <10  | <10 | <10 | <10  | <10 | <10  | <10  | <10  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| >EC7-EC8 #                              | TM36/PM12               | ug/l | <10  | 21000000 | 0 |  | <10  | <10 | <10 | <10  | <10 | <10  | <10  | <10  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| >EC8-EC10 #                             | TM36/PM12               | ug/l | <10  | 190000   | 0 |  | <10  | <10 | <10 | <10  | <10 | <10  | <10  | <10  | <10  | <10 | <10 | <10 | <10  | <10  | <10 | <10 | <10  | <10  | <10 |  |
| >EC10-EC12 #                            | TM5/PM16/PM30           | ug/l | <5   | 660000   | 0 |  | <5   | <5  | <5  | <5   | <5  | <5   | <5   | <5   | <5   | <5  | <5  | <5  | <5   | <5   | <5  | <5  | <5   | <5   | <5  |  |



|                                         |                         |          |       |         |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|-----------------------------------------|-------------------------|----------|-------|---------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| >EC12-EC16 #                            | TM5/PM16/PM30           | ug/l     | <10   | 3700000 | 0 | <10   | <10   | <10   | 40    | <10   | <10   | <10   | 160   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | 20    | <10   | <10   |       |  |
| >EC16-EC21 #                            | TM5/PM16/PM30           | ug/l     | <10   |         |   | <10   | <10   | <10   | 190   | <10   | <10   | <10   | 390   | <10   | <10   | <10   | <10   | 30    | <10   | <10   | <10   | <10   | <10   | 630   | <10   | <10   |  |
| >EC21-EC35 #                            | TM5/PM16/PM30           | ug/l     | <10   |         |   | <10   | <10   | <10   | 470   | <10   | <10   | <10   | 750   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | <10   | <10   |  |
| Total aromatics C5-35 #                 | TM5/PM36/PM12/PM16/PM30 | ug/l     | <10   |         |   | <10   | <10   | <10   | 700   | <10   | <10   | <10   | 1300  | <10   | <10   | <10   | <10   | 30    | <10   | <10   | <10   | <10   | <10   | 650   | <10   | <10   |  |
| Total aliphatics and aromatics(C5-35) # | TM5/PM36/PM12/PM16/PM30 | ug/l     | <10   |         |   | <10   | <10   | <10   | 700   | <10   | <10   | <10   | 2574  | <10   | 1297  | <10   | <10   | 57    | <10   | <10   | <10   | <10   | <10   | 650   | <10   | <10   |  |
| Total Phenols HPLC                      | TM26/PM0                | mg/l     | <0.15 |         |   | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |  |
| Other Inorganics                        |                         |          |       |         |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| Sulphate as SO4 #                       | TM89/PM0                | mg/l     | <0.5  |         |   | 111.7 | 202.4 | 108.5 | <0.5  | 66.6  | 100.7 | 96.6  | 1.5   | 332.2 | <0.5  | 161.5 | 5.3   | 11.6  | <0.5  | 11.6  | 86    | 27    | <0.5  | 21.8  | 48.3  | 48.8  |  |
| Chloride #                              | TM38/PM0                | mg/l     | <0.3  |         |   | 48    | 24.5  | 46.8  | 41.5  | 85.3  | 68.3  | 71.4  | 21.2  | 24.3  | 73.2  | 41    | 52    | 29.8  | 14.6  | 254.9 | 48.2  | 81.6  | 38.3  | 18.4  | 63.1  | 66.3  |  |
| Nitrate as NO3 #                        | TM38/PM0                | mg/l     | <0.2  |         |   | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | 3.9   | 1.2   | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | <0.2  | 38.6  | 39.1  |  |
| Nitrite as NO2 #                        | TM38/PM0                | mg/l     | <0.02 |         |   | 0.02  | <0.02 | 0.05  | <0.02 | <0.02 | 0.05  | 0.06  | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |  |
| Ortho Phosphate as PO4 #                | TM38/PM0                | mg/l     | <0.06 |         |   | 0.46  | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | 0.21  | 0.08  | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | 1.67  | 1     |  |
| Nitrate as N #                          | TM38/PM0                | mg/l     | <0.05 |         |   | -     | <0.05 | -     | -     | <0.05 | -     | 0.28  | <0.05 | <0.05 | <0.05 | <0.05 | -     | -     | -     | <0.05 | <0.05 | -     | -     | <0.05 | 8.72  | 8.82  |  |
| Total Cyanide #                         | TM89/PM0                | mg/l     | <0.01 |         |   | <0.01 | <0.01 | <0.01 | 0.02  | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01  | <0.01 | 0.02  | <0.01 | 0.01  | <0.01 | 0.02  | <0.01 | <0.01 |  |
| Ammoniacal Nitrogen as N #              | TM38/PM0                | mg/l     | <0.03 |         |   | 3.72  | 3.82  | 1.42  | 6.74  | 2.73  | 0.19  | 0.47  | 16.52 | 10.72 | 14.36 | 2.53  | 4.71  | 17.07 | 2.82  | 14.99 | 9.08  | 25.74 | 2.87  | 11.38 | 0.03  | 0.04  |  |
| Hexavalent Chromium                     | TM38/PM0                | ug/l     | <6    |         |   | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    |  |
| Total Dissolved Chromium III            | TM0/PM0                 | ug/l     | <6    |         |   | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    |  |
| Total Alkalinity as CaCO3 #             | TM75/PM0                | mg/l     | <1    |         |   | 478   | 164   | 1470  | 1242  | 670   | 330   | 516   | 1196  | 1282  | 894   | 964   | 776   | 950   | 642   | 796   | 896   | 1096  | 892   | 876   | 230   | 256   |  |
| Sulphide                                | TM107/PM0               | mg/l     | <0.01 |         |   | -     | 0.01  | -     | -     | <0.01 | -     | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -     | -     | -     | <0.01 | <0.01 | -     | -     | <0.01 | <0.01 | <0.01 |  |
| BOD (Settled) #                         | TM58/PM0                | mg/l     | <1    |         |   | 5     | 4     | 7     | 22    | 9     | 3     | 5     | 21    | 11    | 25    | 19    | 17    | 16    | 26    | 18    | 13    | 21    | -     | 20    | <1    | 1     |  |
| COD (Settled) #                         | TM57/PM0                | mg/l     | <7    |         |   | 52    | 61    | 38    | 114   | 57    | 33    | 31    | 74    | 112   | 53    | 78    | 63    | 85    | 118   | 139   | 80    | 122   | -     | 55    | 17    | <7    |  |
| Dissolved Organic Carbon #              | TM60/PM0                | mg/l     | <2    |         |   | 15    | 19    | 9     | 16    | 7     | 6     | 6     | 12    | 29    | <2    | <2    | 25    | 19    | 16    | 30    | 8     | 13    | 15    | 5     | <2    | <2    |  |
| pH #                                    | TM73/PM0                | pH units | <0.01 |         |   | 7.78  | 7.88  | 7.64  | 7.49  | 7.56  | 7.54  | 7.6   | 7.18  | 7.44  | 7.15  | 7.45  | 7.32  | 7.56  | 7.46  | 7.91  | 7.51  | 7.57  | 7.69  | 7.65  | 8.15  | 8.17  |  |
| Phenols                                 |                         |          |       |         |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 2-Chlorophenol #                        | TM16/PM30               | ug/l     | <0.5  |         |   |       | <1    |       |       | <1    |       | <1    | <1    |       | <1    | <1    |       | <1    |       | <1    | <1    |       |       | <1    | <1    |       |  |
| 2-Methylphenol #                        | TM16/PM30               | ug/l     | <0.5  |         |   |       | <0.5  |       |       | <0.5  |       | <0.5  | <0.5  |       | <0.5  | <0.5  |       | <0.5  |       | <0.5  | <0.5  |       |       | <0.5  | <0.5  |       |  |
| 2-Nitrophenol                           | TM16/PM30               | ug/l     | <0.5  |         |   |       | <0.5  |       |       | <0.5  |       | <0.5  | <0.5  |       | <0.5  | <0.5  |       | <0.5  |       | <0.5  | <0.5  |       |       | <0.5  | <0.5  |       |  |
| 2,4-Dichlorophenol #                    | TM16/PM30               | ug/l     | <1    |         |   |       | <0.5  |       |       | <0.5  |       | <0.5  | <0.5  |       | <0.5  | <0.5  |       | <0.5  |       | <0.5  | <0.5  |       |       | <0.5  | <0.5  |       |  |
| 2,4-Dimethylphenol                      | TM16/PM30               | ug/l     | <0.5  |         |   |       | <1    |       |       | <1    |       | <1    | <1    |       | <1    | <1    |       | <1    |       | <1    | <1    |       |       | <1    | <1    |       |  |
| 2,4,5-Trichlorophenol #                 | TM16/PM30               | ug/l     | <1    |         |   |       | <0.5  |       |       | <0.5  |       | <0.5  | <0.5  |       | <0.5  | <0.5  |       | <0.5  |       | <0.5  | <0.5  |       |       | <0.5  | <0.5  |       |  |
| 2,4,6-Trichlorophenol                   | TM16/PM30               | ug/l     | <0.5  |         |   |       | <1    |       |       | <1    |       | <1    | <1    |       | <1    | <1    |       | <1    |       | <1    | <1    |       |       | <1    | <1    |       |  |
| 4-Chloro-3-methylphenol #               | TM16/PM30               | ug/l     | <1    |         |   |       | <0.5  |       |       | <0.5  |       | <0.5  | <0.5  |       | <0.5  | <0.5  |       | <0.5  |       | <0.5  | <0.5  |       |       | <0.5  | <0.5  |       |  |
| 4-Methylphenol                          | TM16/PM30               | ug/l     | <10   |         |   |       | <1    |       |       | <1    |       | <1    | 2     |       | <1    | <1    |       | <1    |       | <1    | <1    |       |       | <1    | <1    |       |  |
| 4-Nitrophenol                           | TM16/PM30               | ug/l     | <1    |         |   |       | <10   |       |       | <10   |       | <10   | <10   |       | <10   | <10   |       | <10   |       | <10   | <10   |       |       | <10   | <10   |       |  |
| Pentachlorophenol                       | TM16/PM30               | ug/l     | <1    |         |   |       | <1    |       |       | <1    |       | <1    | <1    |       | <1    | <1    |       | <1    |       | <1    | <1    |       |       | <1    | <1    |       |  |
| Phenol                                  | TM16/PM30               | ug/l     |       |         |   |       | <1    |       |       | <1    |       | <1    | <1    |       | <1    | <1    |       | <1    |       | <1    | <1    |       |       | <1    | <1    |       |  |
| PAHs                                    |                         |          |       |         |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 2-Chloronaphthalene #                   | TM16/PM30               | ug/l     | <1    | 14000   | 0 |       | <1    |       |       | <1    |       | <1    | <1    |       | <1    | <1    |       | <1    |       | <1    | <1    |       |       | <1    | <1    |       |  |
| 2-Methylnaphthalene #                   | TM16/PM30               | ug/l     |       |         |   |       | <1    |       |       | <1    |       | <1    | <1    |       | <1    | <1    |       | <1    |       | <1    | <1    |       |       | <1    | <1    |       |  |
| Phthalates                              |                         |          |       |         |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| Bis(2-ethylhexyl) phthalate             | TM16/PM30               | ug/l     | <1    |         |   |       | <5    |       |       | <5    |       | <5    | 6     |       | <5    | <5    |       | <5    |       | <5    | <5    |       |       | <5    | <5    |       |  |
| Butylbenzyl phthalate                   | TM16/PM30               | ug/l     | <1.5  |         |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |

|                                        |           |      |      |     |   |   |      |   |      |      |   |      |      |      |      |      |   |      |      |      |      |   |   |      |      |      |
|----------------------------------------|-----------|------|------|-----|---|---|------|---|------|------|---|------|------|------|------|------|---|------|------|------|------|---|---|------|------|------|
| Hexachloroethane <sup>#</sup>          | TM16/PM30 | ug/l | <0.5 | 740 | 0 |   | <1   |   |      | <1   |   | <1   | <1   |      | <1   | <1   |   | <1   |      | <1   | <1   |   |   | <1   | <1   |      |
| Isophorone <sup>#</sup>                | TM16/PM30 | ug/l | <0.5 |     |   |   | <0.5 |   |      | <0.5 |   | <0.5 | <0.5 |      | <0.5 | <0.5 |   | <0.5 |      | <0.5 | <0.5 |   |   | <0.5 | <0.5 |      |
| Nitrobenzene <sup>#</sup>              | TM16/PM30 | ug/l | <0   |     |   |   | <0.5 |   |      | <0.5 |   | <0.5 | <0.5 |      | <0.5 | <0.5 |   | <0.5 |      | <0.5 | <0.5 |   |   | <0.5 | <0.5 |      |
| N-nitrosodi-n-propylamine <sup>#</sup> | TM16/PM30 | ug/l | <1   |     |   |   | <1   |   |      | <1   |   | <1   | <1   |      | <1   | <1   |   | <1   |      | <1   | <1   |   |   | <1   | <1   |      |
| Surrogate Recovery 2-Fluorobiphenyl    | TM16/PM30 | %    | <0   |     |   |   | 98   |   |      | 78   |   | 70   | 88   |      | 88   | 109  |   | 86   |      | 120  | 87   |   |   | 90   | 110  |      |
| Surrogate Recovery p-Terphenyl-d14     | TM16/PM30 | %    |      |     |   |   | 104  |   |      | 96   |   | 87   | 111  |      | 118  | 117  |   | 121  |      | 130  | 116  |   |   | 106  | 120  |      |
| PCB 28 #                               | TM17/PM30 | ug/l | <0.1 |     |   | - | <0.1 | - | <0.1 | -    | - | <0.1 | -    | <0.1 | <0.1 | -    | - | -    | <0.1 | -    | -    | - | - | -    | <0.1 | <0.1 |
| PCB 52 #                               | TM17/PM30 | ug/l | <0.1 |     |   | - | <0.1 | - | <0.1 | -    | - | <0.1 | -    | <0.1 | <0.1 | -    | - | -    | <0.1 | -    | -    | - | - | -    | <0.1 | <0.1 |
| PCB 101 #                              | TM17/PM30 | ug/l | <0.1 |     |   | - | <0.1 | - | <0.1 | -    | - | <0.1 | -    | <0.1 | <0.1 | -    | - | -    | <0.1 | -    | -    | - | - | -    | <0.1 | <0.1 |
| PCB 118 #                              | TM17/PM30 | ug/l | <0.1 |     |   | - | <0.1 | - | <0.1 | -    | - | <0.1 | -    | <0.1 | <0.1 | -    | - | -    | <0.1 | -    | -    | - | - | -    | <0.1 | <0.1 |
| PCB 138 #                              | TM17/PM30 | ug/l | <0.1 |     |   | - | <0.1 | - | <0.1 | -    | - | <0.1 | -    | <0.1 | <0.1 | -    | - | -    | <0.1 | -    | -    | - | - | -    | <0.1 | <0.1 |
| PCB 153 #                              | TM17/PM30 | ug/l | <0.1 |     |   | - | <0.1 | - | <0.1 | -    | - | <0.1 | -    | <0.1 | <0.1 | -    | - | -    | <0.1 | -    | -    | - | - | -    | <0.1 | <0.1 |
| PCB 180 #                              | TM17/PM30 | ug/l | <0.1 |     |   | - | <0.1 | - | <0.1 | -    | - | <0.1 | -    | <0.1 | <0.1 | -    | - | -    | <0.1 | -    | -    | - | - | -    | <0.1 | <0.1 |
| Total 7 PCBs                           | TM17/PM30 | ug/l | <0.7 |     |   | - | <0.7 | - | <0.7 | -    | - | <0.7 | -    | <0.7 | <0.7 | -    | - | -    | <0.7 | -    | -    | - | - | -    | <0.7 | <0.7 |

| Risks to Human Heatlh (Commerical/Industrial) |                         |       |        |            | Sample ID            |                     | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | WS16         | WS18         | SW01         | SW02         | SW03         |              |               |               |               |
|-----------------------------------------------|-------------------------|-------|--------|------------|----------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                               |                         |       |        |            | Depth                |                     | 4.64         | 4.75         | 6.18         | 6.53         | 0.85         | 5.12         | 4.99         | 3.73         | 2.70         | 2.99         | 1.21         | 4.00         | 2.88         | 3.96         |              |              |              |              |               |               |               |
|                                               |                         |       |        |            | Sample Type          |                     | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                               |                         |       |        |            | Sampled Date         |                     | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 26/02/2024   | 27/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 26/02/2024   | 26/02/2024   | 26/02/2024   | 26/02/2024   | 26/02/2024    | 26/02/2024    |               |
|                                               |                         |       |        |            | Sample Received Date |                     | 29/02/2024   | 29/02/2024   | 29/02/2024   | 29/02/2024   | 27/02/2024   | 28/02/2024   | 29/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 28/02/2024   | 28/02/2024   | 28/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024   | 27/02/2024    | 27/02/2024    | 27/02/2024    |
| Test                                          | Method                  | Units | LOD    | GAC Source | GAC GW               | No. GAC Exceedances |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Metals                                        |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dissolved Arsenic #                           | TM30/PM14               | ug/l  | <2.5   |            |                      | 0                   | 3.7          | 4.2          | 2.9          | 3.8          | <2.5         | <2.5         | 8.4          | 12.7         | 5.3          | <2.5         | <2.5         | <2.5         | 4.5          | <2.5         | <2.5         | <2.5         | <2.5         |              |               |               |               |
| Dissolved Beryllium                           | TM30/PM14               | ug/l  | <0.5   |            |                      | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |              |               |               |               |
| Dissolved Boron                               | TM30/PM14               | ug/l  | <12    |            |                      | 0                   | 200          | 468          | 624          | 1590         | 57           | 126          | 879          | 100          | 208          | 191          | 392          | 454          | 126          | 362          | 56           | 48           | 41           |              |               |               |               |
| Dissolved Cadmium #                           | TM30/PM14               | ug/l  | <0.5   |            |                      | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | 0.6          | <0.5         | <0.5         | <0.5         |              |               |               |               |
| Total Dissolved Chromium #                    | TM30/PM14               | ug/l  | <1.5   |            |                      | 0                   | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         |              |               |               |               |
| Dissolved Copper #                            | TM30/PM14               | ug/l  | <7     |            |                      | 0                   | 9            | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | <7           | 58           | <7           | <7           | <7           |              |               |               |               |
| Total Dissolved Iron #                        | TM30/PM14               | ug/l  | <20    |            |                      | 0                   | <20          | 2221         | 39           | 246          | <20          | 66           | 40           | 5125         | 4246         | 21731        | 9599         | 672          | 38           | <20          | 34           | 30           | 28           |              |               |               |               |
| Dissolved Lead #                              | TM30/PM14               | ug/l  | <5     |            |                      | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | 15           | <5           | <5           | <5           |              |               |               |               |
| Dissolved Mercury #                           | TM30/PM14               | ug/l  | <1     |            | 56                   | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <1           |              |               |               |               |
| Dissolved Nickel #                            | TM30/PM14               | ug/l  | <2     |            |                      | 0                   | 2            | 3            | <2           | <2           | <2           | 6            | <2           | 4            | 5            | <2           | <2           | <2           | 10           | 31           | <2           | <2           | <2           |              |               |               |               |
| Dissolved Selenium #                          | TM30/PM14               | ug/l  | <3     |            |                      | 0                   | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           | <3           |              |               |               |               |
| Dissolved Vanadium #                          | TM30/PM14               | ug/l  | <1.5   |            |                      | 0                   | 2            | 3            | 4.6          | 3.5          | 7.2          | 4.5          | 4.5          | 1.9          | <1.5         | 2.6          | 2.1          | 2            | 6.3          | 1.5          | <1.5         | <1.5         | <1.5         |              |               |               |               |
| Dissolved Zinc #                              | TM30/PM14               | ug/l  | <3     |            |                      | 0                   | 7            | 4            | 4            | <3           | <3           | 18           | <3           | 5            | <3           | 8            | 8            | <3           | 7            | 1111         | 8            | 8            | 7            |              |               |               |               |
| Total Hardness Dissolved (as CaCO3)           | TM30/PM14               | mg/l  | <1     |            |                      | 0                   | 570          | 1268         | 525          | 632          | 199          | 292          | 1128         | 410          | 735          | 831          | 850          | 795          | 467          | 1102         | 278          | 281          | 284          |              |               |               |               |
| PAH MS                                        |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Napthalene #                                  | TM4/PM30                | ug/l  | <0.1   |            | 23000                | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <3.0         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <2.0         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |              |               |               |               |
| Acenaphthylene #                              | TM4/PM30                | ug/l  | <0.005 |            | 20000000             | 0                   | 0.053        | 0.008        | 0.204        | 0.027        | <0.005       | 0.666        | 0.039        | <0.005       | <0.005       | 0.013        | <0.005       | 0.253        | 0.009        | <0.005       | <0.005       | <0.005       | <0.005       |              |               |               |               |
| Acenaphthene #                                | TM4/PM30                | ug/l  | <0.005 |            | 15000000             | 0                   | 0.12         | 0.17         | 8.668        | 2.561        | <0.005       | <0.150       | 2.042        | <0.005       | <0.005       | 0.706        | 0.888        | 3.677        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |               |               |               |
| Fluorene #                                    | TM4/PM30                | ug/l  | <0.005 |            | 18000000             | 0                   | 0.025        | 0.022        | 1.958        | 0.529        | <0.005       | <0.150       | 0.269        | <0.005       | <0.005       | 0.68         | 0.528        | 0.738        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |               |               |               |
| Phenanthrene #                                | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.214        | <0.005       | <0.005       | 0.07         | <0.005       | 0.821        | <0.005       | 0.007        | <0.005       | 0.529        | 0.044        | 1.024        | 0.009        | <0.005       | <0.005       | <0.005       | <0.005       |              |               |               |               |
| Anthracene #                                  | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.094        | <0.005       | 0.137        | 0.105        | 0.01         | 0.978        | <0.005       | 0.01         | 0.007        | 0.167        | 0.06         | 1.602        | 0.023        | 0.009        | <0.005       | <0.005       | <0.005       |              |               |               |               |
| Fluoranthene #                                | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 1.114        | 0.03         | 1.116        | 0.295        | 0.012        | 4.429        | 0.7          | 0.018        | 0.005        | 0.428        | 0.05         | 28.734       | 0.047        | 0.015        | 0.014        | 0.018        | 0.023        |              |               |               |               |
| Pyrene #                                      | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 1.021        | 0.029        | 0.739        | 0.192        | 0.013        | 4.773        | 0.582        | 0.02         | 0.006        | 0.297        | 0.038        | 23.981       | 0.05         | 0.015        | 0.016        | 0.018        | 0.022        |              |               |               |               |
| Benzo(a)anthracene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.531        | 0.013        | 0.077        | 0.017        | 0.008        | 2.728        | 0.287        | 0.013        | <0.005       | 0.061        | <0.005       | 8.882        | 0.041        | 0.016        | 0.008        | 0.011        | 0.014        |              |               |               |               |
| Chrysene #                                    | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.522        | 0.009        | 0.074        | 0.015        | 0.008        | 3.38         | 0.265        | 0.01         | <0.005       | 0.058        | <0.005       | 10.284       | 0.036        | 0.012        | 0.006        | 0.01         | 0.011        |              |               |               |               |
| Benzo(bk)fluoranthene #                       | TM4/PM30                | ug/l  | <0.008 |            |                      | 0                   | 1.134        | 0.018        | 0.144        | 0.017        | 0.019        | 9.852        | 0.528        | 0.02         | <0.008       | 0.055        | <0.008       | 11.307       | 0.094        | 0.029        | 0.015        | 0.019        | 0.023        |              |               |               |               |
| Benzo(a)pyrene #                              | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.606        | 0.008        | 0.08         | 0.007        | 0.01         | 4.888        | 0.293        | 0.009        | <0.005       | 0.03         | <0.005       | 6.851        | 0.051        | 0.015        | 0.007        | 0.009        | 0.011        |              |               |               |               |
| Indeno(123cd)pyrene #                         | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.45         | 0.008        | 0.068        | 0.007        | 0.009        | 4.657        | 0.21         | 0.008        | <0.005       | 0.019        | <0.005       | 4.537        | 0.05         | 0.016        | 0.007        | 0.008        | 0.009        |              |               |               |               |
| Dibenzo(ah)anthracene #                       | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.099        | <0.005       | 0.014        | <0.005       | <0.005       | 1.065        | 0.044        | <0.005       | <0.005       | 0.007        | <0.005       | 0.887        | 0.011        | 0.005        | <0.005       | <0.005       | <0.005       |              |               |               |               |
| Benzo(ghi)perylene #                          | TM4/PM30                | ug/l  | <0.005 |            |                      | 0                   | 0.399        | 0.007        | 0.064        | 0.006        | 0.01         | 4.301        | 0.201        | 0.007        | <0.005       | 0.017        | <0.005       | 3.882        | 0.044        | 0.012        | 0.007        | 0.008        | 0.009        |              |               |               |               |
| PAH 16 Total #                                | TM4/PM30                | ug/l  | <0.173 |            |                      | 0                   | 6.382        | 0.322        | 13.343       | 3.848        | <0.173       | 42.538       | 5.46         | <0.173       | <0.173       | 3.067        | 1.608        | 106.639      | 0.465        | <0.173       | <0.173       | <0.173       | <0.173       |              |               |               |               |
| Benzo(b)fluoranthene                          | TM4/PM30                | ug/l  | <0.008 |            |                      | 0                   | 0.816        | 0.013        | 0.104        | 0.012        | 0.014        | 7.093        | 0.38         | 0.014        | <0.008       | 0.04         | <0.008       | 8.141        | 0.068        | 0.021        | 0.011        | 0.014        | 0.017        |              |               |               |               |
| Benzo(k)fluoranthene                          | TM4/PM30                | ug/l  | <0.008 |            |                      | 0                   | 0.318        | <0.008       | 0.04         | <0.008       | <0.008       | 2.759        | 0.148        | <0.008       | <0.008       | 0.015        | <0.008       | 3.166        | 0.026        | 0.008        | <0.008       | <0.008       | <0.008       |              |               |               |               |
| PAH Surrogate % Recovery                      | TM4/PM30                | %     | <0     |            |                      | 0                   | 83           | 89           | 85           | 86           | 91           | 101          | 74           | 78           | 86           | 78           | 92           | 98           | 85           | 85           | 89           | 91           | 85           |              |               |               |               |
| VOC TICs                                      | TM15/PM10               | None  |        |            |                      | 0                   | ND           | NA           | ND           | NA           | ND           | ND           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | ND           | ND           | ND           |              |               |               |               |
| Methyl Tertiary Butyl Ether #                 | TM15/PM10               | ug/l  | <0.1   |            |                      | 0                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.1         | <0.1         | NA           |              |               |               |               |
| Benzene #                                     | TM15/PM10               | ug/l  | <0.5   |            |                      | 0                   | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <0.5         | <0.5         | NA           |              |               |               |               |
| Toluene #                                     | TM15/PM10               | ug/l  | <5     |            |                      | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <5           | <5           | NA           |              |               |               |               |
| Ethylbenzene #                                | TM15/PM10               | ug/l  | <1     |            |                      | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1           | NA           |              |               |               |               |
| m/p-Xylene #                                  | TM15/PM10               | ug/l  | <2     |            |                      | 0                   | <2           | <2           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <2           | <2           | NA           |              |               |               |               |
| o-Xylene #                                    | TM15/PM10               | ug/l  | <1     |            |                      | 0                   | <1           | <1           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | <1           | <1           | NA           |              |               |               |               |
| Surrogate Recovery Toluene D8                 | TM15/PM10               | %     | <0     |            |                      | 0                   | 100          | 92           | 96           | 98           | 102          | 97           | 98           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 103          | 104          | NA           |              |               |               |               |
| Surrogate Recovery 4-Bromofluorobenzene       | TM15/PM10               | %     | <0     |            |                      | 0                   | 101          | 95           | 102          | 95           | 103          | 99           | 98           | NA           | NA           | NA           | NA           | NA           | NA           | NA           | 101          | 102          | NA           |              |               |               |               |
| TPH CWG                                       |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Aliphatics                                    |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >C5-C6 #                                      | TM36/PM12               | ug/l  | <10    |            | 190000               | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| >C6-C8 #                                      | TM36/PM12               | ug/l  | <10    |            | 150000               | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| >C8-C10 #                                     | TM36/PM12               | ug/l  | <10    |            | 5700                 | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| >C10-C12 #                                    | TM5/PM16/PM30           | ug/l  | <5     |            | 3600                 | 0                   | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |              |               |               |               |
| >C12-C16 #                                    | TM5/PM16/PM30           | ug/l  | <10    |            | nv                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| >C16-C21 #                                    | TM5/PM16/PM30           | ug/l  | <10    |            | nv                   | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | 450          | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| >C21-C35 #                                    | TM5/PM16/PM30           | ug/l  | <10    |            | nv                   | 0                   | 2490         | <10          | <10          | <10          | <10          | <10          | 270          | <10          | <10          | <10          | <10          | 660          | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| Total aliphatics C5-35 #                      | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |            |                      | 0                   | 2490         | <10          | <10          | <10          | <10          | <10          | 270          | <10          | <10          | <10          | <10          | 1110         | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| Aromatics                                     |                         |       |        |            |                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >C5-EC7 #                                     | TM36/PM12               | ug/l  | <10    |            | 2000                 | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| >EC7-EC8 #                                    | TM36/PM12               | ug/l  | <10    |            | 21000000             | 0                   | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |              |               |               |               |
| >EC8-EC10 #                                   | TM36/PM12               | ug/l  | <10    |            | 190000               | 0                   | <10          | <1           |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |



|                              |           |      |       |  |          |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------|-----------|------|-------|--|----------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nitrite as NO2 #             | TM38/PM0  | mg/l | <0.02 |  |          | 0 | 0.06  | <0.02 | 0.03  | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | 0.04  | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | 0.33  | 0.43  | 0.52  |
| Ortho Phosphate as PO4 #     | TM38/PM0  | mg/l | <0.06 |  |          | 0 | <0.06 | <0.06 | 1.33  | 0.2   | <0.06 | <0.06 | 0.17  | 0.12  | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | 0.13  | 0.41  | 0.49  | 0.55  |
| Total Cyanide #              | TM89/PM0  | mg/l | <0.01 |  |          | 0 | 0.01  | 0.03  | <0.01 | 0.01  | <0.01 | <0.01 | 0.02  | <0.01 | <0.01 | 0.01  | 0.01  | 0.04  | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Ammoniacal Nitrogen as N #   | TM38/PM0  | mg/l | <0.03 |  |          | 0 | 0.9   | 7.55  | 3.08  | 12.96 | 0.09  | 0.37  | 16.73 | 0.75  | 0.86  | 6.43  | 5.97  | 5.03  | 0.21  | 0.06  | 0.22  | 0.29  | 0.36  |       |
| Hexavalent Chromium          | TM38/PM0  | ug/l | <6    |  |          | 0 | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    |       |
| Total Dissolved Chromium III | TM0/PM0   | ug/l | <6    |  |          | 0 | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    | <6    |       |
| Total Alkalinity as CaCO3 #  | TM75/PM0  | mg/l | <1    |  |          | 0 | 582   | 934   | 360   | 744   | 168   | 406   | 728   | 406   | 480   | 838   | 808   | 588   | 436   | 452   | 230   | 234   | 246   |       |
| BTEX                         |           |      |       |  |          |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MTBE #                       | TM36/PM12 | ug/l | <5    |  | 7800000  | 0 |       |       |       |       |       | NA    |       | <5    | <5    | <5    | <5    | <5    | <5    | <5    |       |       | <5    |       |
| Benzene #                    | TM36/PM12 | ug/l | <5    |  | 20000    | 0 |       |       |       |       |       | NA    |       | <5    | <5    | <5    | <5    | <5    | <5    | <5    |       |       | <5    |       |
| Toluene #                    | TM36/PM12 | ug/l | <5    |  | 21000000 | 0 |       |       |       |       |       | NA    |       | <5    | <5    | <5    | <5    | <5    | <5    | <5    |       |       | <5    |       |
| Ethylbenzene #               | TM36/PM12 | ug/l | <5    |  | 960000   | 0 |       |       |       |       |       | NA    |       | <5    | <5    | <5    | <5    | <5    | <5    | <5    |       |       | <5    |       |
| m/p-Xylene #                 | TM36/PM12 | ug/l | <5    |  | 940000   | 0 |       |       |       |       |       | NA    |       | <5    | <5    | <5    | <5    | <5    | <5    | <5    |       |       | <5    |       |
| o-Xylene #                   | TM36/PM12 | ug/l | <5    |  | 1100000  | 0 |       |       |       |       |       | NA    |       | <5    | <5    | <5    | <5    | <5    | <5    | <5    |       |       | <5    |       |
| Phenols                      |           |      |       |  |          |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 2-Chlorophenol #             | TM16/PM30 | ug/l | <0.5  |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 2-Methylphenol #             | TM16/PM30 | ug/l | <0.5  |  |          | 0 | <0.5  | NA    | <0.5  | NA    | <0.5  | <0.5  | <0.5  | <0.5  | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <0.5  | <0.5  | <0.5  |
| 2-Nitrophenol                | TM16/PM30 | ug/l | <0.5  |  |          | 0 | <0.5  | NA    | <0.5  | NA    | <0.5  | <0.5  | <0.5  | <0.5  | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <0.5  | <0.5  | <0.5  |
| 2,4-Dichlorophenol #         | TM16/PM30 | ug/l | <1    |  |          | 0 | <0.5  | NA    | <0.5  | NA    | <0.5  | <0.5  | <0.5  | <0.5  | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <0.5  | <0.5  | <0.5  |
| 2,4-Dimethylphenol           | TM16/PM30 | ug/l | <0.5  |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 2,4,5-Trichlorophenol #      | TM16/PM30 | ug/l | <1    |  |          | 0 | <0.5  | NA    | <0.5  | NA    | <0.5  | <0.5  | <0.5  | <0.5  | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <0.5  | <0.5  | <0.5  |
| 2,4,6-Trichlorophenol        | TM16/PM30 | ug/l | <0.5  |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 4-Chloro-3-methylphenol #    | TM16/PM30 | ug/l | <1    |  |          | 0 | <0.5  | NA    | <0.5  | NA    | <0.5  | <0.5  | <0.5  | <0.5  | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <0.5  | <0.5  | <0.5  |
| 4-Methylphenol               | TM16/PM30 | ug/l | <10   |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 4-Nitrophenol                | TM16/PM30 | ug/l | <1    |  |          | 0 | <10   | NA    | <10   | NA    | <10   | <10   | <10   | <10   | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <10   | <10   | <10   |
| Pentachlorophenol            | TM16/PM30 | ug/l | <1    |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| Phenol                       | TM16/PM30 | ug/l |       |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| PAHs                         |           |      |       |  |          |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 2-Chloronaphthalene #        | TM16/PM30 | ug/l | <1    |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 2-Methylnaphthalene #        | TM16/PM30 | ug/l |       |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| Phthalates                   |           |      |       |  |          |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Bis(2-ethylhexyl) phthalate  | TM16/PM30 | ug/l | <1    |  |          | 0 | <5    | NA    | <5    | NA    | <5    | <5    | <5    | <5    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <5    | <5    | <5    |
| Butylbenzyl phthalate        | TM16/PM30 | ug/l | <1.5  |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| Di-n-butyl phthalate #       | TM16/PM30 | ug/l | <1    |  |          | 0 | <1.5  | NA    | <1.5  | NA    | <1.5  | <1.5  | <1.5  | <1.5  | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1.5  | <1.5  | <1.5  |
| Di-n-Octyl phthalate         | TM16/PM30 | ug/l | <1    |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| Diethyl phthalate #          | TM16/PM30 | ug/l | <1    |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| Dimethyl phthalate           | TM16/PM30 | ug/l |       |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| Other SVOCs                  |           |      |       |  |          |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1,2-Dichlorobenzene #        | TM16/PM30 | ug/l | <1    |  | 7200     | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 1,2,4-Trichlorobenzene #     | TM16/PM30 | ug/l | <1    |  | 220000   | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 1,3-Dichlorobenzene #        | TM16/PM30 | ug/l | <1    |  | 2800     | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 1,4-Dichlorobenzene #        | TM16/PM30 | ug/l | <1    |  | 460000   | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 2-Nitroaniline               | TM16/PM30 | ug/l | <0.5  |  | nv       | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 2,4-Dinitrotoluene #         | TM16/PM30 | ug/l | <1    |  | nv       | 0 | <0.5  | NA    | <0.5  | NA    | <0.5  | <0.5  | <0.5  | <0.5  | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <0.5  | <0.5  | <0.5  |
| 2,6-Dinitrotoluene           | TM16/PM30 | ug/l | <1    |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 3-Nitroaniline               | TM16/PM30 | ug/l | <1    |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 4-Bromophenylphenylether #   | TM16/PM30 | ug/l | <1    |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | <1    | <1    | <1    |
| 4-Chloroaniline              | TM16/PM30 | ug/l | <1    |  |          | 0 | <1    | NA    | <1    | NA    | <1    | <1    | <1    | <1    |       |       |       |       |       |       |       |       |       |       |

|                                |           |      |      |  |         |   |      |    |      |    |      |      |      |    |    |    |    |    |    |    |      |      |      |
|--------------------------------|-----------|------|------|--|---------|---|------|----|------|----|------|------|------|----|----|----|----|----|----|----|------|------|------|
| Trichlorofluoromethane #       | TM15/PM10 | ug/l | <3   |  |         | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 1,1-Dichloroethene (1,1 DCE) # | TM15/PM10 | ug/l | <3   |  | 3100    | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| Dichloromethane (DCM) #        | TM15/PM10 | ug/l | <3   |  |         | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| trans-1-2-Dichloroethene #     | TM15/PM10 | ug/l | <3   |  | 7200    | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 1,1-Dichloroethane #           | TM15/PM10 | ug/l | <3   |  | 2200    | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| cis-1-2-Dichloroethene #       | TM15/PM10 | ug/l | <3   |  |         | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 2,2-Dichloropropane            | TM15/PM10 | ug/l | <1   |  |         | 0 | <1   | NA | <1   | NA | <1   | <1   | <1   | NA | NA | NA | NA | NA | NA | NA | <1   | <1   | <1   |
| Bromochloromethane #           | TM15/PM10 | ug/l | <2   |  | 220000  | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Chloroform #                   | TM15/PM10 | ug/l | <2   |  | 15000   | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| 1,1,1-Trichloroethane #        | TM15/PM10 | ug/l | <2   |  | 2600    | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| 1,1-Dichloropropene #          | TM15/PM10 | ug/l | <3   |  | 2200    | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| Carbon tetrachloride #         | TM15/PM10 | ug/l | <2   |  | 2800    | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| 1,2-Dichloroethane #           | TM15/PM10 | ug/l | <2   |  |         | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Benzene #                      | TM15/PM10 | ug/l | <0.5 |  | 460000  | 0 | <0.5 | NA | <0.5 | NA | <0.5 | <0.5 | <0.5 | NA | NA | NA | NA | NA | NA | NA | <0.5 | <0.5 | <0.5 |
| Trichloroethene (TCE) #        | TM15/PM10 | ug/l | <3   |  |         | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 1,2-Dichloropropane #          | TM15/PM10 | ug/l | <2   |  | 640000  | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Dibromomethane #               | TM15/PM10 | ug/l | <3   |  |         | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| Bromodichloromethane #         | TM15/PM10 | ug/l | <2   |  |         | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| cis-1-3-Dichloropropene        | TM15/PM10 | ug/l | <2   |  | 20000   | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Toluene #                      | TM15/PM10 | ug/l | <5   |  | 20000   | 0 | <5   | NA | <5   | NA | <5   | <5   | <5   | NA | NA | NA | NA | NA | NA | NA | <5   | <5   | <5   |
| trans-1-3-Dichloropropene      | TM15/PM10 | ug/l | <2   |  |         | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| 1,1,2-Trichloroethane #        | TM15/PM10 | ug/l | <2   |  | 1600    | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Tetrachloroethene (PCE) #      | TM15/PM10 | ug/l | <3   |  | 400000  | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 1,3-Dichloropropane #          | TM15/PM10 | ug/l | <2   |  |         | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Dibromochloromethane #         | TM15/PM10 | ug/l | <2   |  | 770     | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| 1,2-Dibromoethane #            | TM15/PM10 | ug/l | <2   |  | 15000   | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Chlorobenzene #                | TM15/PM10 | ug/l | <2   |  | 1000000 | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| 1,1,1,2-Tetrachloroethane #    | TM15/PM10 | ug/l | <2   |  | 85000   | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Ethylbenzene #                 | TM15/PM10 | ug/l | <1   |  | 1400    | 0 | <1   | NA | <1   | NA | <1   | <1   | <1   | NA | NA | NA | NA | NA | NA | NA | <1   | <1   | <1   |
| m/p-Xylene #                   | TM15/PM10 | ug/l | <2   |  | 13000   | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| o-Xylene #                     | TM15/PM10 | ug/l | <1   |  |         | 0 | <1   | NA | <1   | NA | <1   | <1   | <1   | NA | NA | NA | NA | NA | NA | NA | <1   | <1   | <1   |
| Styrene                        | TM15/PM10 | ug/l | <2   |  |         | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Bromoform #                    | TM15/PM10 | ug/l | <2   |  |         | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| Isopropylbenzene #             | TM15/PM10 | ug/l | <3   |  |         | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 1,1,2,2-Tetrachloroethane      | TM15/PM10 | ug/l | <4   |  |         | 0 | <4   | NA | <4   | NA | <4   | <4   | <4   | NA | NA | NA | NA | NA | NA | NA | <4   | <4   | <4   |
| Bromobenzene #                 | TM15/PM10 | ug/l | <2   |  | 960000  | 0 | <2   | NA | <2   | NA | <2   | <2   | <2   | NA | NA | NA | NA | NA | NA | NA | <2   | <2   | <2   |
| 1,2,3-Trichloropropane #       | TM15/PM10 | ug/l | <3   |  |         | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| Propylbenzene #                | TM15/PM10 | ug/l | <3   |  | 86000   | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 2-Chlorotoluene #              | TM15/PM10 | ug/l | <3   |  | 940000  | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 1,3,5-Trimethylbenzene #       | TM15/PM10 | ug/l | <3   |  | 7800000 | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 4-Chlorotoluene #              | TM15/PM10 | ug/l | <3   |  | 23000   | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| tert-Butylbenzene #            | TM15/PM10 | ug/l | <3   |  |         | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA | NA | NA | NA | NA | NA | NA | <3   | <3   | <3   |
| 1,2,4-Trimethylbenzene #       | TM15/PM10 | ug/l | <3   |  | 1100000 | 0 | <3   | NA | <3   | NA | <3   | <3   | <3   | NA |    |    |    |    |    |    |      |      |      |

|                             |             |      |       |  |  |   |       |    |       |    |       |       |       |    |    |    |    |    |    |       |       |       |
|-----------------------------|-------------|------|-------|--|--|---|-------|----|-------|----|-------|-------|-------|----|----|----|----|----|----|-------|-------|-------|
| p,p'-Methoxychlor           | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.30 | NA | <0.30 | NA | <0.01 | <0.30 | <0.30 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.10 |
| p,p'-TDE                    | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Organophosphorus Pesticides |             |      |       |  |  |   |       |    |       |    |       |       |       |    |    |    |    |    |    |       |       |       |
| Azinphos methyl             | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Diazinon                    | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Dichlorvos                  | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.30 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Disulfoton                  | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Ethion                      | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Ethyl Parathion (Parathion) | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Fenitrothion                | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Malathion                   | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Methyl Parathion            | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Mevinphos                   | TM149/PM30  | ug/l | <0.01 |  |  | 0 | <0.03 | NA | <0.03 | NA | <0.01 | <0.03 | <0.03 | NA | NA | NA | NA | NA | NA | <0.01 | <0.01 | <0.01 |
| Acid Herbicides             |             |      |       |  |  |   |       |    |       |    |       |       |       |    |    |    |    |    |    |       |       |       |
| Benazolin                   | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Bentazone                   | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Bromoxynil                  | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Clopyralid                  | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| 4-CPA                       | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| 2,4-D                       | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| 2,4-DB                      | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Dicamba                     | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Dichloroprop                | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Diclofop                    | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Fenoprop                    | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Flamprop                    | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Flamprop-isopropyl          | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Ioxynil                     | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| MCPA                        | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| MCPB                        | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Mecoprop                    | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Picloram                    | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Pentachlorophenol           | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| 2,4,5-T                     | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| 2,3,6-TBA                   | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| Triclopyr                   | TM42/PM30   | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| PFAAS                       |             |      |       |  |  |   |       |    |       |    |       |       |       |    |    |    |    |    |    |       |       |       |
| PFBA                        | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFPeA                       | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFHxA                       | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFFpA                       | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFOA                        | TM135/PM121 | ug/l | <0.05 |  |  | 0 | 0.06  | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFNA                        | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFDA                        | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFUnA                       | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFDoA                       | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFTTrDA                     | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFTeDA                      | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFFxDA                      | TM135/PM121 | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| PFODA                       | TM135/PM121 | ug/l | <0.1  |  |  | 0 | <0.1  | NA | <0.1  | NA | <0.1  | <0.1  | <0.1  | NA | NA | NA | NA | NA | NA | <0.1  | <0.1  | <0.1  |
| PFBS                        | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | 0.08  | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFPeS                       | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFFxS                       | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFFpS                       | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFOS                        | TM135/PM121 | ug/l | <0.05 |  |  | 0 | 0.14  | NA | <0.05 | NA | <0.05 | 0.05  | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFNS                        | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFDS                        | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFUnDS                      | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |
| PFDoDS                      | TM135/PM121 | ug/l | <0.05 |  |  | 0 | <0.05 | NA | <0.05 | NA | <0.05 | <0.05 | <0.05 | NA | NA | NA | NA | NA | NA | <0.05 | <0.05 | <0.05 |

|                    |             |      |          |  |  |   |        |    |        |    |        |        |        |    |    |    |    |    |    |    |        |        |        |
|--------------------|-------------|------|----------|--|--|---|--------|----|--------|----|--------|--------|--------|----|----|----|----|----|----|----|--------|--------|--------|
| PFTrDS             | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| HFPO-DA (Gen X)    | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| HFPO-TA            | TM135/PM121 | ug/l | <1       |  |  | 0 | <1     | NA | <1     | NA | <1     | <1     | <1     | NA | NA | NA | NA | NA | NA | NA | <1     | <1     | <1     |
| DONA               | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| PFMOPra            | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| NFDHA              | TM135/PM121 | ug/l | <0.1     |  |  | 0 | <0.1   | NA | <0.1   | NA | <0.1   | <0.1   | <0.1   | NA | NA | NA | NA | NA | NA | NA | <0.1   | <0.1   | <0.1   |
| PFMOBA             | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| PFECHS             | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| 3:3 FTCA           | TM135/PM121 | ug/l | <0.1     |  |  | 0 | <0.1   | NA | <0.1   | NA | <0.1   | <0.1   | <0.1   | NA | NA | NA | NA | NA | NA | NA | <0.1   | <0.1   | <0.1   |
| 5:3 FTCA           | TM135/PM121 | ug/l | <0.5     |  |  | 0 | <0.5   | NA | <0.5   | NA | <0.5   | <0.5   | <0.5   | NA | NA | NA | NA | NA | NA | NA | <0.5   | <0.5   | <0.5   |
| 7:3 FTCA           | TM135/PM121 | ug/l | <0.1     |  |  | 0 | <0.1   | NA | <0.1   | NA | <0.1   | <0.1   | <0.1   | NA | NA | NA | NA | NA | NA | NA | <0.1   | <0.1   | <0.1   |
| PFEESA             | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| 9Cl-PF3ONS         | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| 11Cl-PF3OUdS       | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| 4:2 FTS            | TM135/PM121 | ug/l | <0.2     |  |  | 0 | <0.2   | NA | <0.2   | NA | <0.2   | <0.2   | <0.2   | NA | NA | NA | NA | NA | NA | NA | <0.2   | <0.2   | <0.2   |
| 6:2 FTS            | TM135/PM121 | ug/l | <0.2     |  |  | 0 | <0.2   | NA | <0.2   | NA | <0.2   | <0.2   | <0.2   | NA | NA | NA | NA | NA | NA | NA | <0.2   | <0.2   | <0.2   |
| 8:2 FTS            | TM135/PM121 | ug/l | <0.2     |  |  | 0 | <0.2   | NA | <0.2   | NA | <0.2   | <0.2   | <0.2   | NA | NA | NA | NA | NA | NA | NA | <0.2   | <0.2   | <0.2   |
| FBSA               | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| FHxSA              | TM135/PM121 | ug/l | <0.05    |  |  | 0 | <0.05  | NA | <0.05  | NA | <0.05  | <0.05  | <0.05  | NA | NA | NA | NA | NA | NA | NA | <0.05  | <0.05  | <0.05  |
| FOSA               | TM135/PM121 | ug/l | <1       |  |  | 0 | <1     | NA | <1     | NA | <1     | <1     | <1     | NA | NA | NA | NA | NA | NA | NA | <1     | <1     | <1     |
| N-MeFOSA           | TM135/PM121 | ug/l | <1       |  |  | 0 | <1     | NA | <1     | NA | <1     | <1     | <1     | NA | NA | NA | NA | NA | NA | NA | <1     | <1     | <1     |
| N-EtFOSA           | TM135/PM121 | ug/l | <1       |  |  | 0 | <1     | NA | <1     | NA | <1     | <1     | <1     | NA | NA | NA | NA | NA | NA | NA | <1     | <1     | <1     |
| Me-FOSE            | TM135/PM121 | ug/l | <0.1     |  |  | 0 | <0.1   | NA | <0.1   | NA | <0.1   | <0.1   | <0.1   | NA | NA | NA | NA | NA | NA | NA | <0.1   | <0.1   | <0.1   |
| Et-FOSE            | TM135/PM121 | ug/l | <0.1     |  |  | 0 | <0.1   | NA | <0.1   | NA | <0.1   | <0.1   | <0.1   | NA | NA | NA | NA | NA | NA | NA | <0.1   | <0.1   | <0.1   |
| N-MeFOSAA          | TM135/PM121 | ug/l | <1       |  |  | 0 | <1     | NA | <1     | NA | <1     | <1     | <1     | NA | NA | NA | NA | NA | NA | NA | <1     | <1     | <1     |
| N-EtFOSAA          | TM135/PM121 | ug/l | <1       |  |  | 0 | <1     | NA | <1     | NA | <1     | <1     | <1     | NA | NA | NA | NA | NA | NA | NA | <1     | <1     | <1     |
| 8:2diPAP           | TM135/PM121 | ug/l | <0.2     |  |  | 0 | <0.2   | NA | <0.2   | NA | <0.2   | <0.2   | <0.2   | NA | NA | NA | NA | NA | NA | NA | <0.2   | <0.2   | <0.2   |
| FOUEA              | TM135/PM121 | ug/l | <1       |  |  | 0 | <1     | NA | <1     | NA | <1     | <1     | <1     | NA | NA | NA | NA | NA | NA | NA | <1     | <1     | <1     |
| PFBA <sup>#</sup>  | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.005  | NA | 0.007  | NA | 0.002  | 0.006  | 0.078  | NA | NA | NA | NA | NA | NA | NA | 0.005  | 0.006  | 0.003  |
| PFPeA <sup>#</sup> | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.022  | NA | 0.028  | NA | <0.005 | 0.027  | 0.025  | NA | NA | NA | NA | NA | NA | NA | 0.007  | 0.006  | 0.004  |
| PFHxA <sup>#</sup> | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.018  | NA | 0.022  | NA | 0.005  | 0.022  | 0.027  | NA | NA | NA | NA | NA | NA | NA | 0.007  | 0.006  | 0.004  |
| PFHpA <sup>#</sup> | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.013  | NA | 0.013  | NA | 0.003  | 0.007  | 0.011  | NA | NA | NA | NA | NA | NA | NA | 0.004  | 0.003  | 0.002  |
| PFOA <sup>#</sup>  | TM135/PM122 | ug/l | <0.00065 |  |  | 0 | 0.0393 | NA | 0.0286 | NA | 0.0071 | 0.0069 | 0.0338 | NA | NA | NA | NA | NA | NA | NA | 0.0106 | 0.0089 | 0.0068 |
| PFNA <sup>#</sup>  | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.003  | NA | <0.001 | NA | 0.001  | 0.001  | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFDA <sup>#</sup>  | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFUnA <sup>#</sup> | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFDoA              | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFTrDA             | TM135/PM122 | ug/l | <0.006   |  |  | 0 | <0.006 | NA | <0.006 | NA | <0.006 | <0.006 | <0.006 | NA | NA | NA | NA | NA | NA | NA | <0.006 | <0.006 | <0.006 |
| PFTeDA             | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFHxDA             | TM135/PM122 | ug/l | <0.01    |  |  | 0 | <0.01  | NA | <0.01  | NA | <0.01  | <0.01  | <0.01  | NA | NA | NA | NA | NA | NA | NA | <0.01  | <0.01  | <0.01  |
| PFODA              | TM135/PM122 | ug/l | <0.025   |  |  | 0 | <0.025 | NA | <0.025 | NA | <0.025 | <0.025 | <0.025 | NA | NA | NA | NA | NA | NA | NA | <0.025 | <0.025 | <0.025 |
| PFBS <sup>#</sup>  | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.007  | NA | 0.01   | NA | 0.007  | 0.069  | 0.026  | NA | NA | NA | NA | NA | NA | NA | 0.006  | 0.006  | 0.005  |
| PFPeS <sup>#</sup> | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.002  | NA | 0.005  | NA | <0.001 | <0.001 | 0.008  | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFHxS <sup>#</sup> | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.021  | NA | 0.029  | NA | 0.004  | 0.005  | 0.042  | NA | NA | NA | NA | NA | NA | NA | 0.006  | 0.005  | 0.004  |
| PFHpS <sup>#</sup> | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.001  | NA | 0.001  | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFOS <sup>#</sup>  | TM135/PM122 | ug/l | <0.00065 |  |  | 0 | 0.0783 | NA | 0.0186 | NA | 0.0208 | 0.023  | 0.0296 | NA | NA | NA | NA | NA | NA | NA | 0.0112 | 0.0134 | 0.0093 |
| PFNS               | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFDS               | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFUnDS             | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFDoDS             | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFTrDS             | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| HFPO-DA (Gen X)    | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| HFPO-TA            | TM135/PM122 | ug/l | <0.02    |  |  | 0 | <0.02  | NA | <0.02  | NA | <0.02  | <0.02  | <0.02  | NA | NA | NA | NA | NA | NA | NA | <0.02  | <0.02  | <0.02  |
| DONA <sup>#</sup>  | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFMOPra            | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | 0.001  | <0.001 | <0.001 |
| NFDHA              | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFMOBA             | TM135/PM122 | ug/l | <0.001   |  |  | 0 | <0.001 | NA | <0.001 | NA | <0.001 | <0.001 | <0.001 | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| PFECHS             | TM135/PM122 | ug/l | <0.001   |  |  | 0 | 0.003  | NA | 0.002  | NA | 0.001  | 0.001  | 0.023  | NA | NA | NA | NA | NA | NA | NA | <0.001 | <0.001 | <0.001 |
| 3:3 FTCA           | TM135/PM122 | ug/l | <0.02    |  |  | 0 | <0.02  | NA | <0.02  | NA | <0.02  | <0.02  | <0.02  | NA | NA | NA | NA | NA | NA | NA | <0.02  | <0.02  | <0.02  |

|                                |                |          |        |  |  |   |        |       |        |       |        |        |        |        |        |       |       |       |        |        |        |        |        |
|--------------------------------|----------------|----------|--------|--|--|---|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 5:3 FTCA                       | TM135/PM122    | ug/l     | <0.01  |  |  | 0 | <0.01  | NA    | <0.01  | NA    | <0.01  | <0.01  | <0.01  | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.01  | <0.01  | <0.01  |
| 7:3 FTCA                       | TM135/PM122    | ug/l     | <0.02  |  |  | 0 | <0.02  | NA    | <0.02  | NA    | <0.02  | <0.02  | <0.02  | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.02  | <0.02  | <0.02  |
| PFEESA                         | TM135/PM122    | ug/l     | <0.001 |  |  | 0 | <0.001 | NA    | <0.001 | NA    | <0.001 | <0.001 | <0.001 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.001 | <0.001 | <0.001 |
| 9Cl-PF3ONS #                   | TM135/PM122    | ug/l     | <0.001 |  |  | 0 | <0.001 | NA    | <0.001 | NA    | <0.001 | <0.001 | <0.001 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.001 | <0.001 | <0.001 |
| 11Cl-PF3OUdS                   | TM135/PM122    | ug/l     | <0.001 |  |  | 0 | <0.001 | NA    | <0.001 | NA    | <0.001 | <0.001 | <0.001 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.001 | <0.001 | <0.001 |
| 4:2 FTS                        | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| 6:2 FTS                        | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | 0.012  | NA    | 0.018  | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| 8:2 FTS                        | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| FBSA                           | TM135/PM122    | ug/l     | <0.02  |  |  | 0 | <0.02  | NA    | <0.02  | NA    | <0.02  | <0.02  | <0.02  | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.02  | <0.02  | <0.02  |
| FHxSA                          | TM135/PM122    | ug/l     | <0.02  |  |  | 0 | <0.02  | NA    | <0.02  | NA    | <0.02  | <0.02  | <0.02  | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.02  | <0.02  | <0.02  |
| FOSA                           | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| N-MeFOSA                       | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| N-EtFOSA                       | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| Me-FOSE                        | TM135/PM122    | ug/l     | <0.02  |  |  | 0 | <0.02  | NA    | <0.02  | NA    | <0.02  | <0.02  | <0.02  | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.02  | <0.02  | <0.02  |
| Et-FOSE                        | TM135/PM122    | ug/l     | <0.02  |  |  | 0 | <0.02  | NA    | <0.02  | NA    | <0.02  | <0.02  | <0.02  | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.02  | <0.02  | <0.02  |
| N-MeFOSAA                      | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| N-EtFOSAA                      | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | 0.031  | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| 8:2diPAP                       | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
| FOUEA                          | TM135/PM122    | ug/l     | <0.005 |  |  | 0 | <0.005 | NA    | <0.005 | NA    | <0.005 | <0.005 | <0.005 | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.005 | <0.005 | <0.005 |
|                                |                |          |        |  |  |   |        |       |        |       |        |        |        |        |        |       |       |       |        |        |        |        |        |
| 1,4-Dioxane*                   | Subcontracted/ | ug/l     | <0.07  |  |  | 0 | <0.07  | NA    | <0.14  | NA    | <0.14  | <0.49  | 33.6   | NA     | NA     | NA    | NA    | NA    | NA     | NA     | <0.21  | <0.21  | <0.07  |
| BOD (Settled) #                | TM58/PM0       | mg/l     | <1     |  |  | 0 | <1     | 10    | 4      | 17    | <1     | 2      | 19     | 9      | 1      | 24    | 23    | 13    | 1      | 2      | <1     | 1      | 1      |
| COD (Settled) #                | TM57/PM0       | mg/l     | <7     |  |  | 0 | 45     | 67    | 124    | 90    | 18     | 43     | 75     | 62     | 57     | 58    | 46    | 55    | 43     | 26     | 22     | 18     | 14     |
| Dissolved Oxygen               | TM58/PM0       | mg/l     | <1     |  |  | 0 | 6      | NA    | 6      | NA    | 9      | 5      | 3      | NA     | NA     | NA    | NA    | NA    | NA     | NA     | NA     | NA     | NA     |
| Dissolved Organic Carbon #     | TM60/PM0       | mg/l     | <2     |  |  | 0 | 23     | 13    | 18     | 48    | 4      | 6      | 45     | 11     | 11     | 19    | 13    | 15    | 2      | 6      | 4      | 3      | 3      |
| Electrical Conductivity @25C # | TM76/PM0       | uS/cm    | <2     |  |  | 0 | 1206   | NA    | 984    | NA    | 453    | 705    | 1976   | NA     | NA     | NA    | NA    | NA    | NA     | NA     | NA     | NA     | NA     |
| Free Ammonia as NH3            | TM176/PM0      | mg/l     | <0.007 |  |  | 0 | <0.007 | 0.061 | <0.007 | 0.278 | <0.007 | <0.007 | 0.084  | <0.007 | <0.007 | 0.011 | 0.024 | 0.024 | <0.007 | <0.007 | <0.007 | <0.007 | <0.007 |
| pH #                           | TM73/PM0       | pH units | <0.01  |  |  | 0 | 7.49   | 7.65  | 7.72   | 7.96  | 7.95   | 7.21   | 7.54   | 7.31   | 7.45   | 7.26  | 7.77  | 7.25  | 7.99   | 7.31   | 7.91   | 7.73   | 7.69   |
| Total Dissolved Solids #       | TM20/PM0       | mg/l     | <35    |  |  | 0 | 811    | NA    | 618    | NA    | 268    | 482    | 1413   | NA     | NA     | NA    | NA    | NA    | NA     | NA     | NA     | NA     | NA     |

| Risks to Human Heatlh<br>(Commerical/Industrial) |                         |       |        | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------------------------|-------------------------|-------|--------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |                         |       |        | Depth                |                      | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                                  |                         |       |        | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |                         |       |        | Sampled Date         |                      | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                                  |                         |       |        | Sample Received Date |                      | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                             | Method                  | Units | LOD    | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |               |               |               |
| Metals                                           |                         |       |        |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Dissolved Arsenic #                              | TM30/PM14               | ug/l  | <2.5   |                      |                      | 3.3          | 1.3          | 1.4          | 3.9          | 3.3          | 3            | 7.6          | 0.9           | 0.9           | <0.9          |
| Dissolved Beryllium                              | TM30/PM14               | ug/l  | <0.5   |                      |                      | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Boron                                  | TM30/PM14               | ug/l  | <12    |                      |                      | 296          | 556          | 128          | 1873         | 107          | 122          | 1111         | 60            | 53            | 44            |
| Dissolved Cadmium #                              | TM30/PM14               | ug/l  | <0.5   |                      |                      | 0.04         | <0.03        | 0.03         | <0.03        | <0.03        | 0.04         | <0.03        | <0.03         | <0.03         | <0.03         |
| Total Dissolved Chromium #                       | TM30/PM14               | ug/l  | <1.5   |                      |                      | 0.4          | 1            | 0.2          | 0.8          | 0.6          | 0.3          | 1.4          | 0.3           | 0.3           | 0.3           |
| Dissolved Copper #                               | TM30/PM14               | ug/l  | <7     |                      |                      | 9            | <1           | 2            | <1           | <1           | 4            | <1           | 2             | 2             | 2             |
| Total Dissolved Iron #                           | TM30/PM14               | ug/l  | <20    |                      |                      | 920.8        | 2355.5       | 12.7         | 1619.6       | 177          | 48.7         | 30           | 32.6          | 28            | 26.4          |
| Dissolved Lead #                                 | TM30/PM14               | ug/l  | <5     | 56                   |                      | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | 0.8          | <0.4         | <0.4          | <0.4          | <0.4          |
| Dissolved Mercury #                              | TM30/PM14               | ug/l  | <1     |                      | 0                    | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Nickel #                               | TM30/PM14               | ug/l  | <2     |                      |                      | 4.4          | 1.8          | 3.1          | 2.6          | 2.2          | 6.1          | 1.7          | 2             | 1.7           | 1.5           |
| Dissolved Selenium #                             | TM30/PM14               | ug/l  | <3     |                      |                      | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2          | <1.2          | <1.2          |
| Dissolved Vanadium #                             | TM30/PM14               | ug/l  | <1.5   |                      |                      | 3.3          | 2.4          | 3.3          | 3.6          | 5.5          | 4.6          | 6.1          | 1.7           | 1.6           | 1.7           |
| Dissolved Zinc #                                 | TM30/PM14               | ug/l  | <3     |                      |                      | 8            | 2.2          | 4.5          | 2.3          | 3.8          | 19.5         | 2.5          | 6.3           | 6.4           | 5.8           |
| Total Hardness Dissolved (as CaCO3)              | TM30/PM14               | mg/l  | <1     |                      |                      | 799          | 1219         | 352          | 646          | 214          | 289          | 918          | 277           | 286           | 287           |
| PAH MS                                           |                         |       |        |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Naphthalene #                                    | TM4/PM30                | ug/l  | <0.1   | 23000                | 0                    | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1          | <0.1          | <0.1          |
| Acenaphthylene #                                 | TM4/PM30                | ug/l  | <0.005 | 20000000             | 0                    | <0.005       | 0.007        | 0.01         | 0.031        | 0.007        | 0.044        | 0.022        | <0.005        | <0.005        | <0.005        |
| Acenaphthene #                                   | TM4/PM30                | ug/l  | <0.005 | 15000000             | 0                    | 0.011        | 0.162        | 0.258        | 2.432        | 0.007        | 0.022        | 1.578        | <0.005        | <0.005        | <0.005        |
| Fluorene #                                       | TM4/PM30                | ug/l  | <0.005 | 18000000             | 0                    | <0.005       | 0.021        | 0.048        | 0.422        | <0.005       | 0.006        | 0.212        | <0.005        | <0.005        | <0.005        |
| Phenanthrene #                                   | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | 0.012        | <0.005       | 0.03         | <0.005       | 0.054        | 0.012        | <0.005        | <0.005        | <0.005        |
| Anthracene #                                     | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.011        | 0.011        | 0.006        | 0.079        | 0.031        | 0.078        | 0.027        | <0.005        | <0.005        | <0.005        |
| Fluoranthene #                                   | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.011        | 0.019        | 0.017        | 0.186        | <0.005       | 0.267        | 0.019        | 0.012         | 0.007         | 0.008         |
| Pyrene #                                         | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.011        | 0.015        | 0.01         | 0.119        | <0.005       | 0.292        | 0.012        | 0.012         | 0.007         | 0.009         |
| Benzo(a)anthracene #                             | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | 0.009        | <0.005       | 0.167        | <0.005       | <0.005        | <0.005        | <0.005        |
| Chrysene #                                       | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | 0.008        | <0.005       | 0.202        | <0.005       | <0.005        | <0.005        | <0.005        |
| Benzo(bk)fluoranthene #                          | TM4/PM30                | ug/l  | <0.008 |                      |                      | 0.015        | <0.008       | <0.008       | <0.008       | <0.008       | 0.574        | <0.008       | 0.012         | <0.008        | <0.008        |
| Benzo(a)pyrene #                                 | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       | 0.328        | <0.005       | 0.006         | <0.005        | <0.005        |
| Indeno(123cd)pyrene #                            | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.007        | <0.005       | <0.005       | <0.005       | <0.005       | 0.276        | <0.005       | 0.006         | <0.005        | <0.005        |
| Dibenzo(ah)anthracene #                          | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.056        | <0.005       | <0.005        | <0.005        | <0.005        |
| Benzo(ghi)perylene #                             | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       | 0.278        | <0.005       | 0.006         | <0.005        | <0.005        |
| PAH 16 Total #                                   | TM4/PM30                | ug/l  | <0.173 |                      |                      | <0.173       | 0.247        | 0.349        | 3.316        | <0.173       | 2.644        | 1.882        | <0.173        | <0.173        | <0.173        |
| Benzo(b)fluoranthene                             | TM4/PM30                | ug/l  | <0.008 |                      |                      | 0.011        | <0.008       | <0.008       | <0.008       | <0.008       | 0.413        | <0.008       | 0.009         | <0.008        | <0.008        |
| Benzo(k)fluoranthene                             | TM4/PM30                | ug/l  | <0.008 |                      |                      | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.161        | <0.008       | <0.008        | <0.008        | <0.008        |
| PAH Surrogate % Recovery                         | TM4/PM30                | %     | <0     |                      |                      | 76           | 74           | 80           | 85           | 105          | 90           | 79           | 90            | 89            | 85            |
| VOC TICs                                         | TM15/PM10               | None  |        |                      |                      | ND           | NA           | ND           | ND           | ND           | NA           | ND           | ND            | ND            | NA            |
| Methyl Tertiary Butyl Ether #                    | TM15/PM10               | ug/l  | <0.1   |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Benzene #                                        | TM15/PM10               | ug/l  | <0.5   |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Toluene #                                        | TM15/PM10               | ug/l  | <5     |                      |                      | <5           | NA           | <5           | <5           | <5           | NA           | <5           | <5            | <5            | NA            |
| Ethylbenzene #                                   | TM15/PM10               | ug/l  | <1     |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| m/p-Xylene #                                     | TM15/PM10               | ug/l  | <2     |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| o-Xylene #                                       | TM15/PM10               | ug/l  | <1     |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Surrogate Recovery Toluene D8                    | TM15/PM10               | %     | <0     |                      |                      | 89           | NA           | 101          | 96           | 95           | NA           | 97           | 91            | 97            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene          | TM15/PM10               | %     | <0     |                      |                      | 92           | NA           | 96           | 92           | 94           | NA           | 93           | 89            | 93            | NA            |
| TPH CWG                                          |                         |       |        |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Aliphatics                                       |                         |       |        |                      |                      |              |              |              |              |              |              |              |               |               |               |
| >C5-C6 #                                         | TM36/PM12               | ug/l  | <10    | 190000               | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C6-C8 #                                         | TM36/PM12               | ug/l  | <10    | 150000               | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C8-C10 #                                        | TM36/PM12               | ug/l  | <10    | 5700                 | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C10-C12 #                                       | TM5/PM16/PM30           | ug/l  | <5     | 3600                 | 0                    | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >C12-C16 #                                       | TM5/PM16/PM30           | ug/l  | <10    |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C16-C21 #                                       | TM5/PM16/PM30           | ug/l  | <10    |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C21-C35 #                                       | TM5/PM16/PM30           | ug/l  | <10    |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics C5-35 #                         | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Aromatics                                        |                         |       |        |                      |                      |              |              |              |              |              |              |              |               |               |               |



| Risks to Human Heatlh<br>(Commerical/Industrial) |                         |       |       | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------------------------|-------------------------|-------|-------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |                         |       |       | Depth                |                      | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                                  |                         |       |       | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |                         |       |       | Sampled Date         |                      | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                                  |                         |       |       | Sample Received Date |                      | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                             | Method                  | Units | LOD   | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |               |               |               |
| >C5-EC7 #                                        | TM36/PM12               | ug/l  | <10   | 2000                 | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC7-EC8 #                                       | TM36/PM12               | ug/l  | <10   | 21000000             | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC8-EC10 #                                      | TM36/PM12               | ug/l  | <10   | 190000               | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC10-EC12 #                                     | TM5/PM16/PM30           | ug/l  | <5    | 660000               | 0                    | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >EC12-EC16 #                                     | TM5/PM16/PM30           | ug/l  | <10   | 3700000              | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC16-EC21 #                                     | TM5/PM16/PM30           | ug/l  | <10   |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC21-EC35 #                                     | TM5/PM16/PM30           | ug/l  | <10   |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aromatics C5-35 #                          | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics and aromatics(C5-35) #          | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total Phenols HPLC                               | TM26/PM0                | mg/l  | <0.15 |                      |                      | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15         | <0.15         | <0.15         |
| Other Inorganics                                 |                         |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Sulphate as SO4 #                                | TM89/PM0                | mg/l  | <0.5  |                      |                      | 179.3        | 187.4        | 95.6         | 146.3        | 89.8         | 77.9         | 159.4        | 45.9          | 40            | 37.5          |
| Chloride #                                       | TM38/PM0                | mg/l  | <0.3  |                      |                      | 13.1         | 33.9         | 45.9         | 130.3        | 22           | 25.3         | 58.1         | 46.1          | 45.8          | 45.7          |
| Nitrate as NO3 #                                 | TM38/PM0                | mg/l  | <0.2  |                      |                      | 8.9          | <0.2         | 16.2         | <0.2         | 0.4          | 0.5          | <0.2         | 19.3          | 22.1          | 25.2          |
| Nitrite as NO2 #                                 | TM38/PM0                | mg/l  | <0.02 |                      |                      | 0.05         | <0.02        | 0.25         | <0.02        | 0.7          | <0.02        | <0.02        | 0.06          | 0.07          | 0.1           |
| Ortho Phosphate as PO4 #                         | TM38/PM0                | mg/l  | <0.06 |                      |                      | <0.06        | 0.3          | 0.63         | 0.14         | 0.08         | 0.13         | 1.51         | 0.52          | 0.57          | 0.59          |
| Total Cyanide #                                  | TM89/PM0                | mg/l  | <0.01 |                      |                      | 0.02         | 0.03         | <0.01        | 0.03         | 0.02         | 0.03         | 0.02         | <0.01         | <0.01         | <0.01         |
| Ammoniacal Nitrogen as N #                       | TM38/PM0                | mg/l  | <0.03 |                      |                      | 0.72         | 7.86         | 0.41         | 12.96        | 1.72         | 0.1          | 17.97        | 0.04          | 0.04          | 0.05          |
| Hexavalent Chromium                              | TM38/PM0                | ug/l  | <6    |                      |                      | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Dissolved Chromium III                     | TM0/PM0                 | ug/l  | <6    |                      |                      | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Alkalinity as CaCO3 #                      | TM75/PM0                | mg/l  | <1    |                      |                      | 592          | 830          | 298          | 674          | 162          | 266          | 842          | 248           | 264           | 262           |
| BTEX                                             |                         |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| MTBE #                                           | TM36/PM12               | ug/l  | <5    | 7800000              | 0                    | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Benzene #                                        | TM36/PM12               | ug/l  | <5    | 20000                | 0                    | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Toluene #                                        | TM36/PM12               | ug/l  | <5    | 21000000             | 0                    | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Ethylbenzene #                                   | TM36/PM12               | ug/l  | <5    | 960000               | 0                    | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| m/p-Xylene #                                     | TM36/PM12               | ug/l  | <5    | 940000               | 0                    | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| o-Xylene #                                       | TM36/PM12               | ug/l  | <5    | 1100000              | 0                    | NA           | <5           | NA           | NA           | NA           | <5           | NA           | NA            | NA            | <5            |
| Phenols                                          |                         |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| 2-Chlorophenol #                                 | TM16/PM30               | ug/l  | <0.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Methylphenol #                                 | TM16/PM30               | ug/l  | <0.5  |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2-Nitrophenol                                    | TM16/PM30               | ug/l  | <0.5  |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,4-Dichlorophenol #                             | TM16/PM30               | ug/l  | <1    |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,4-Dimethylphenol                               | TM16/PM30               | ug/l  | <0.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2,4,5-Trichlorophenol #                          | TM16/PM30               | ug/l  | <1    |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,4,6-Trichlorophenol                            | TM16/PM30               | ug/l  | <0.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Chloro-3-methylphenol #                        | TM16/PM30               | ug/l  | <1    |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 4-Methylphenol                                   | TM16/PM30               | ug/l  | <10   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Nitrophenol                                    | TM16/PM30               | ug/l  | <1    |                      |                      | <10          | NA           | <10          | <10          | <10          | NA           | <10          | <10           | <10           | NA            |
| Pentachlorophenol                                | TM16/PM30               | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Phenol                                           | TM16/PM30               | ug/l  |       |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| PAHs                                             |                         |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| 2-Chloronaphthalene #                            | TM16/PM30               | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Methylnaphthalene #                            | TM16/PM30               | ug/l  |       |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Phthalates                                       |                         |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Bis(2-ethylhexyl) phthalate                      | TM16/PM30               | ug/l  | <1    |                      |                      | <5           | NA           | <5           | <5           | <5           | NA           | <5           | <5            | <5            | NA            |
| Butylbenzyl phthalate                            | TM16/PM30               | ug/l  | <1.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Di-n-butyl phthalate #                           | TM16/PM30               | ug/l  | <1    |                      |                      | <1.5         | NA           | <1.5         | <1.5         | <1.5         | NA           | <1.5         | <1.5          | <1.5          | NA            |
| Di-n-Octyl phthalate                             | TM16/PM30               | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Diethyl phthalate #                              | TM16/PM30               | ug/l  | <1    |                      |                      | 1            | NA           | <1           | <1           | <1           | NA           | 2            | <1            | <1            | NA            |
| Dimethyl phthalate                               | TM16/PM30               | ug/l  |       |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Other SVOCs                                      |                         |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| 1,2-Dichlorobenzene #                            | TM16/PM30               | ug/l  | <1    | 7200                 | 0                    | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |

| Risks to Human Heatlh<br>(Commerical/Industrial) |           |       |      | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------------------------|-----------|-------|------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |           |       |      | Depth                |                      | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                                  |           |       |      | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |           |       |      | Sampled Date         |                      | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                                  |           |       |      | Sample Received Date |                      | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                             | Method    | Units | LOD  | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |               |               |               |
| 1,2,4-Trichlorobenzene <sup>#</sup>              | TM16/PM30 | ug/l  | <1   | 220000               | 0                    | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 1,3-Dichlorobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   | 2800                 | 0                    | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 1,4-Dichlorobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   | 460000               | 0                    | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Nitroaniline                                   | TM16/PM30 | ug/l  | <0.5 |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2,4-Dinitrotoluene <sup>#</sup>                  | TM16/PM30 | ug/l  | <1   |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| 2,6-Dinitrotoluene                               | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 3-Nitroaniline                                   | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Bromophenylphenylether <sup>#</sup>            | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Chloroaniline                                  | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Chlorophenylphenylether <sup>#</sup>           | TM16/PM30 | ug/l  | <0.5 |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 4-Nitroaniline                                   | TM16/PM30 | ug/l  | <0.5 |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Azobenzene <sup>#</sup>                          | TM16/PM30 | ug/l  | <0.5 |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Bis(2-chloroethoxy)methane <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Bis(2-chloroethyl)ether <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Carbazole <sup>#</sup>                           | TM16/PM30 | ug/l  | <0.5 |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Dibenzofuran <sup>#</sup>                        | TM16/PM30 | ug/l  | <1   |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Hexachlorobenzene <sup>#</sup>                   | TM16/PM30 | ug/l  | <1   | 1400                 | 0                    | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachlorobutadiene <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachlorocyclopentadiene                        | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachloroethane <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 | 740                  | 0                    | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Isophorone <sup>#</sup>                          | TM16/PM30 | ug/l  | <0.5 |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| N-nitrosodi-n-propylamine <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Nitrobenzene <sup>#</sup>                        | TM16/PM30 | ug/l  | <0   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Surrogate Recovery 2-Fluorobiphenyl              | TM16/PM30 | %     | <0   |                      |                      | 127          | NA           | 104          | 129          | 97           | NA           | 113          | 127           | 124           | NA            |
| Surrogate Recovery p-Terphenyl-d14               | TM16/PM30 | %     |      |                      |                      | 129          | NA           | 109          | 131          | 104          | NA           | 120          | 128           | 127           | NA            |
| VOC MS                                           |           |       |      |                      |                      |              |              |              |              |              |              |              |               |               |               |
| 1,1,1,2-Tetrachloroethane <sup>#</sup>           | TM15/PM10 | ug/l  | <2   | 22000                | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1,1-Trichloroethane <sup>#</sup>               | TM15/PM10 | ug/l  | <2   | 290000               | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1,2,2-Tetrachloroethane                        | TM15/PM10 | ug/l  | <4   | 150000               | 0                    | <4           | NA           | <4           | <4           | <4           | NA           | <4           | <4            | <4            | NA            |
| 1,1,2-Trichloroethane <sup>#</sup>               | TM15/PM10 | ug/l  | <2   | 49000                | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,1-Dichloroethane <sup>#</sup>                  | TM15/PM10 | ug/l  | <3   | 260000               | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | 16000                | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,1-Dichloropropene <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,3-Trichlorobenzene                           | TM15/PM10 | ug/l  | <3   | 3100                 | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,3-Trichloropropane <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,4-Trichlorobenzene                           | TM15/PM10 | ug/l  | <3   | 7200                 | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2,4-Trimethylbenzene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   | 2200                 | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2-Dibromo-3-chloropropane                      | TM15/PM10 | ug/l  | <2   |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2-Dibromoethane <sup>#</sup>                   | TM15/PM10 | ug/l  | <2   |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2-Dichlorobenzene <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   | 220000               | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,2-Dichloroethane <sup>#</sup>                  | TM15/PM10 | ug/l  | <2   | 15000                | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,2-Dichloropropane <sup>#</sup>                 | TM15/PM10 | ug/l  | <2   | 2600                 | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,3,5-Trimethylbenzene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   | 2200                 | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,3-Dichlorobenzene <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   | 2800                 | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 1,3-Dichloropropane <sup>#</sup>                 | TM15/PM10 | ug/l  | <2   |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| 1,4-Dichlorobenzene <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   | 460000               | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 2,2-Dichloropropane                              | TM15/PM10 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| 2-Chlorotoluene <sup>#</sup>                     | TM15/PM10 | ug/l  | <3   | 640000               | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 4-Chlorotoluene <sup>#</sup>                     | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| 4-Isopropyltoluene <sup>#</sup>                  | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Benzene <sup>#</sup>                             | TM15/PM10 | ug/l  | <0.5 | 20000                | 0                    | <0.5         | NA           | <0.5         | <0.5         | <0.5         | NA           | <0.5         | <0.5          | <0.5          | NA            |
| Bromobenzene <sup>#</sup>                        | TM15/PM10 | ug/l  | <2   | 20000                | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Bromochloromethane <sup>#</sup>                  | TM15/PM10 | ug/l  | <2   |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |



| Risks to Human Heatlh<br>(Commerical/Industrial) |            |       |       | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------------------------|------------|-------|-------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |            |       |       | Depth                |                      | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                                  |            |       |       | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |            |       |       | Sampled Date         |                      | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                                  |            |       |       | Sample Received Date |                      | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                             | Method     | Units | LOD   | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |               |               |               |
| Bromodichloromethane <sup>#</sup>                | TM15/PM10  | ug/l  | <2    | 1600                 | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Bromoform <sup>#</sup>                           | TM15/PM10  | ug/l  | <2    | 400000               | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Bromomethane                                     | TM15/PM10  | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Carbon tetrachloride <sup>#</sup>                | TM15/PM10  | ug/l  | <2    | 770                  | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Chlorobenzene <sup>#</sup>                       | TM15/PM10  | ug/l  | <2    | 15000                | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Chloroethane <sup>#</sup>                        | TM15/PM10  | ug/l  | <3    | 1000000              | 0                    | <3           | NA           | <3           | 5            | <3           | NA           | <3           | <3            | <3            | NA            |
| Chloroform <sup>#</sup>                          | TM15/PM10  | ug/l  | <2    | 85000                | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Chloromethane <sup>#</sup>                       | TM15/PM10  | ug/l  | <3    | 1400                 | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| cis-1-2-Dichloroethene <sup>#</sup>              | TM15/PM10  | ug/l  | <3    | 13000                | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| cis-1-3-Dichloropropene                          | TM15/PM10  | ug/l  | <2    |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Dibromochloromethane <sup>#</sup>                | TM15/PM10  | ug/l  | <2    |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Dibromomethane <sup>#</sup>                      | TM15/PM10  | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Dichlorodifluoromethane                          | TM15/PM10  | ug/l  | <2    |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Dichloromethane (DCM) <sup>#</sup>               | TM15/PM10  | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Ethylbenzene <sup>#</sup>                        | TM15/PM10  | ug/l  | <1    | 960000               | 0                    | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Hexachlorobutadiene                              | TM15/PM10  | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Isopropylbenzene <sup>#</sup>                    | TM15/PM10  | ug/l  | <3    | 86000                | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| m/p-Xylene <sup>#</sup>                          | TM15/PM10  | ug/l  | <2    | 940000               | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Methyl Tertiary Butyl Ether <sup>#</sup>         | TM15/PM10  | ug/l  | <0.1  | 7800000              | 0                    | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Naphthalene                                      | TM15/PM10  | ug/l  | <2    | 23000                | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| n-Butylbenzene <sup>#</sup>                      | TM15/PM10  | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| o-Xylene <sup>#</sup>                            | TM15/PM10  | ug/l  | <1    | 1100000              | 0                    | <1           | NA           | <1           | <1           | <1           | NA           | <1           | <1            | <1            | NA            |
| Propylbenzene <sup>#</sup>                       | TM15/PM10  | ug/l  | <3    | 240000               | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| sec-Butylbenzene <sup>#</sup>                    | TM15/PM10  | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Styrene                                          | TM15/PM10  | ug/l  | <2    | 810000               | 0                    | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Surrogate Recovery 4-Bromofluorobenzene          | TM15/PM10  | %     | <0    |                      |                      | 92           | NA           | 96           | 92           | 94           | NA           | 93           | 89            | 93            | NA            |
| Surrogate Recovery Toluene D8                    | TM15/PM10  | %     | <0    | 6100                 | 0                    | 89           | NA           | 101          | 96           | 95           | NA           | 97           | 91            | 97            | NA            |
| tert-Butylbenzene <sup>#</sup>                   | TM15/PM10  | ug/l  | <3    | 21000000             | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Tetrachloroethene (PCE) <sup>#</sup>             | TM15/PM10  | ug/l  | <3    | 16000                | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Toluene <sup>#</sup>                             | TM15/PM10  | ug/l  | <5    |                      |                      | <5           | NA           | <5           | <5           | <5           | NA           | <5           | <5            | <5            | NA            |
| trans-1-2-Dichloroethene <sup>#</sup>            | TM15/PM10  | ug/l  | <3    | 310                  | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| trans-1-3-Dichloropropene                        | TM15/PM10  | ug/l  | <2    |                      |                      | <2           | NA           | <2           | <2           | <2           | NA           | <2           | <2            | <2            | NA            |
| Trichloroethene (TCE) <sup>#</sup>               | TM15/PM10  | ug/l  | <3    | 1200                 | 0                    | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Trichlorofluoromethane <sup>#</sup>              | TM15/PM10  | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | NA           | <3           | <3            | <3            | NA            |
| Vinyl Chloride <sup>#</sup>                      | TM15/PM10  | ug/l  | <0.1  |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
|                                                  |            |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| SVOC TICs                                        | TM16/PM30  | None  |       |                      |                      | ND           | NA           | ND           | ND           | ND           | NA           | ND           | ND            | ND            | NA            |
| Cyclic octaatomic sulfur                         | TM16/PM30  | ug/l  | <100  |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Pesticides                                       |            |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Organochlorine Pesticides                        |            |       |       |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Aldrin                                           | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Alpha-HCH (BHC)                                  | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Beta-HCH (BHC)                                   | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Delta-HCH (BHC)                                  | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Dieldrin                                         | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan I                                    | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan II                                   | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endosulphan sulphate                             | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Endrin                                           | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Gamma-HCH (BHC)                                  | TM149/PM30 | ug/l  | <0.01 |                      |                      | 0.02         | NA           | 0.02         | 0.02         | <0.01        | NA           | 0.04         | <0.01         | <0.01         | NA            |
| Heptachlor                                       | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Heptachlor Epoxide                               | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| o,p'-Methoxychlor                                | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-DDE                                         | TM149/PM30 | ug/l  | <0.01 |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |

| Risks to Human Heatlh<br>(Commerical/Industrial) |             |       |          | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------------------------|-------------|-------|----------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |             |       |          | Depth                |                      | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                                  |             |       |          | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |             |       |          | Sampled Date         |                      | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                                  |             |       |          | Sample Received Date |                      | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                             | Method      | Units | LOD      | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |               |               |               |
| p,p'-DDT                                         | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-Methoxychlor                                | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| p,p'-TDE                                         | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Organophosphorus Pesticides                      |             |       |          |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Azinphos methyl                                  | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.10        | NA           | <0.01        | <0.10        | <0.01        | NA           | <0.10        | <0.10         | <0.10         | NA            |
| Diazinon                                         | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Dichlorvos                                       | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Disulfoton                                       | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Ethion                                           | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Ethyl Parathion (Parathion)                      | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Fenitrothion                                     | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Malathion                                        | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Methyl Parathion                                 | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Mevinphos                                        | TM149/PM30  | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.01        | <0.01        | <0.01        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| Acid Herbicides                                  |             |       |          |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Benazolin                                        | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Bentazone                                        | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Bromoxynil                                       | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Clopyralid                                       | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 4-CPA                                            | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4-D                                            | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4-DB                                           | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Dicamba                                          | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Dichloroprop                                     | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Diclofop                                         | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Fenoprop                                         | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Flamprop                                         | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Flamprop-isopropyl                               | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Ioxynil                                          | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| MCPA                                             | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| MCPB                                             | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Mecoprop                                         | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Picloram                                         | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Pentachlorophenol                                | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,4,5-T                                          | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| 2,3,6-TBA                                        | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| Triclopyr                                        | TM42/PM30   | ug/l  | <0.1     |                      |                      | <0.1         | NA           | <0.1         | <0.1         | <0.1         | NA           | <0.1         | <0.1          | <0.1          | NA            |
| PFAAS                                            |             |       |          |                      |                      |              |              |              |              |              |              |              |               |               |               |
| PFBA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.009        | NA           | 0.009        | 0.096        | <0.010       | NA           | 0.069        | 0.009         | 0.006         | NA            |
| PFPeA <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.03         | NA           | 0.013        | 0.022        | <0.010       | NA           | 0.017        | 0.006         | 0.005         | NA            |
| PFHxA <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.023        | NA           | 0.012        | 0.036        | 0.021        | NA           | 0.029        | 0.005         | 0.005         | NA            |
| PFHpA <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.013        | NA           | <0.005       | 0.017        | <0.010       | NA           | 0.011        | 0.002         | 0.002         | NA            |
| PFOA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.00065 |                      |                      | 0.037        | NA           | 0.0159       | 0.0616       | 0.0251       | NA           | 0.0338       | 0.0081        | 0.0059        | NA            |

| Risks to Human Heatlh<br>(Commerical/Industrial) |             |       |          | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------------------------|-------------|-------|----------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |             |       |          | Depth                |                      | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                                  |             |       |          | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |             |       |          | Sampled Date         |                      | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                                  |             |       |          | Sample Received Date |                      | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                             | Method      | Units | LOD      | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |               |               |               |
| PFNA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.002        | NA           | <0.005       | <0.005       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFUnA <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDoA                                            | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFTrDA                                           | TM135/PM122 | ug/l  | <0.006   |                      |                      | <0.006       | NA           | <0.030       | <0.006       | <0.060       | NA           | <0.006       | <0.006        | <0.006        | NA            |
| PFTeDA                                           | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFHxDA                                           | TM135/PM122 | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.05        | <0.01        | <0.10        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| PFODA                                            | TM135/PM122 | ug/l  | <0.025   |                      |                      | <0.025       | NA           | <0.125       | <0.025       | <0.250       | NA           | <0.025       | <0.025        | <0.025        | NA            |
| PFBS <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.007        | NA           | 0.008        | 0.024        | 0.033        | NA           | 0.018        | 0.006         | 0.006         | NA            |
| PFPeS <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.002        | NA           | <0.005       | 0.009        | <0.010       | NA           | 0.006        | <0.001        | <0.001        | NA            |
| PFHxS <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.023        | NA           | 0.012        | 0.067        | 0.014        | NA           | 0.044        | 0.005         | 0.004         | NA            |
| PFHpS <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.002        | NA           | <0.005       | 0.014        | <0.010       | NA           | 0.001        | <0.001        | <0.001        | NA            |
| PFOS <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.00065 |                      |                      | 0.0576       | NA           | 0.0184       | 0.0269       | 0.0598       | NA           | 0.0291       | 0.009         | 0.0108        | NA            |
| PFNS                                             | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDS                                             | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFUnDS                                           | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFDoDS                                           | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFTrDS                                           | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| HFPO-DA (Gen X)                                  | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| HFPO-TA                                          | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| DONA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| PFMOPrA                                          | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.010       | NA           | <0.005       | <0.010       | <0.010       | NA           | <0.010       | <0.010        | <0.010        | NA            |
| NFDHA                                            | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.005       | <0.001        | <0.001        | NA            |
| PFMOBA                                           | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.010       | NA           | <0.005       | <0.010       | <0.010       | NA           | <0.010       | <0.010        | <0.010        | NA            |
| PFECHS                                           | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.003        | NA           | <0.005       | 0.118        | <0.010       | NA           | 0.026        | <0.001        | <0.001        | NA            |
| 3:3 FTCA                                         | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| 5:3 FTCA                                         | TM135/PM122 | ug/l  | <0.01    |                      |                      | <0.01        | NA           | <0.05        | <0.01        | <0.10        | NA           | <0.01        | <0.01         | <0.01         | NA            |
| 7:3 FTCA                                         | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| PFEESA                                           | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 9Cl-PF3ONS <sup>#</sup>                          | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 11Cl-PF3OUdS                                     | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       | NA           | <0.005       | <0.001       | <0.010       | NA           | <0.001       | <0.001        | <0.001        | NA            |
| 4:2 FTS                                          | TM135/PM122 | ug/l  | <0.005   |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| 6:2 FTS                                          | TM135/PM122 | ug/l  | <0.005   |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| 8:2 FTS                                          | TM135/PM122 | ug/l  | <0.005   |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| FBSA                                             | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| FHxSA                                            | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| FOSA                                             | TM135/PM122 | ug/l  | <0.005   |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-MeFOSA                                         | TM135/PM122 | ug/l  | <0.005   |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-EtFOSA                                         | TM135/PM122 | ug/l  | <0.005   |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| Me-FOSE                                          | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| Et-FOSE                                          | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        | NA           | <0.10        | <0.02        | <0.20        | NA           | <0.02        | <0.02         | <0.02         | NA            |
| N-MeFOSAA                                        | TM135/PM122 | ug/l  | <0.005   |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| N-EtFOSAA                                        | TM135/PM122 | ug/l  | <0.005   |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | 0.027        | <0.005        | <0.005        | NA            |

| Risks to Human Heatlh<br>(Commerical/Industrial) |                |          |        | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | SW1           | SW2           | SW3           |
|--------------------------------------------------|----------------|----------|--------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |                |          |        | Depth                |                      | 2.5          | 2.3          | 3.3          | 3.75         | 0.75         | 2            | 2.5          |               |               |               |
|                                                  |                |          |        | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |                |          |        | Sampled Date         |                      | 09/04/2024   | 09/04/2024   | 10/04/2024   | 09/04/2024   | 10/04/2024   | 10/04/2024   | 09/04/2024   | 09/04/2024    | 09/04/2024    | 09/04/2024    |
|                                                  |                |          |        | Sample Received Date |                      | 10/04/2024   | 10/04/2024   | 11/04/2024   | 10/04/2024   | 11/04/2024   | 11/04/2024   | 10/04/2024   | 10/04/2024    | 10/04/2024    | 10/04/2024    |
| Test                                             | Method         | Units    | LOD    | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |               |               |               |
| 8:2diPAP                                         | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
| FOUEA                                            | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       | NA           | <0.025       | <0.005       | <0.050       | NA           | <0.005       | <0.005        | <0.005        | NA            |
|                                                  |                |          |        |                      |                      |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dioxane*                                     | Subcontracted/ | ug/l     | <0.07  |                      |                      | <0.35        | 45.7         |              | 46.5         |              |              | <0.77        | <0.35         |               |               |
| BOD (Settled) #                                  | TM58/PM0       | mg/l     | <1     |                      |                      | <2           | 11           | <2           | <8           | <3           | <2           | 33           | <2            | <2            | 2             |
| COD (Settled) #                                  | TM57/PM0       | mg/l     | <7     |                      |                      | 56           | 72           | 11           | 109          | 38           | 19           | 99           | 23            | 20            | 16            |
| Dissolved Oxygen                                 | TM58/PM0       | mg/l     | <1     |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Dissolved Organic Carbon #                       | TM60/PM0       | mg/l     | <2     |                      |                      | 14           | 19           | 3            | 31           | 11           | 7            | 27           | 3             | 3             | 3             |
| Electrical Conductivity @25C #                   | TM76/PM0       | uS/cm    | <2     |                      |                      |              |              |              |              |              |              |              |               |               |               |
| Free Ammonia as NH3                              | TM176/PM0      | mg/l     | <0.007 |                      |                      | <0.007       | 0.111        | <0.007       | 0.33         | 0.017        | <0.007       | 0.212        | <0.007        | <0.007        | <0.007        |
| pH #                                             | TM73/PM0       | pH units | <0.01  |                      |                      | 7.85         | 7.64         | 7.35         | 7.99         | 7.16         | 7.39         | 7.89         | 7.77          | 7.85          | 7.85          |
| Total Dissolved Solids #                         | TM20/PM0       | mg/l     | <35    |                      |                      |              |              |              |              |              |              |              |               |               |               |

| Risks to Human Heatlh<br>(Commerical/Industrial) |                         |       |        | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|--------------------------------------------------|-------------------------|-------|--------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |                         |       |        | Depth                |                      | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                                  |                         |       |        | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |                         |       |        | Sampled Date         |                      | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                                  |                         |       |        | Sample Received Date |                      | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                             | Method                  | Units | LOD    | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Metals                                           |                         |       |        |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dissolved Arsenic #                              | TM30/PM14               | ug/l  | <2.5   |                      |                      | 8.1          | 6.8          | 1.2          | 6.4          | 8.6          | 2.6          | 2.9          | 51.9         | 17.3         | <0.9         | <0.9         | 4.4          | 1.1           | 1.2           | 1.1           |
| Dissolved Beryllium                              | TM30/PM14               | ug/l  | <0.5   |                      |                      | <0.5         | <0.5         | <0.5         | 314.2        | <0.5         | <0.5         | 204.8        | <0.5         | <0.5         | <0.5         | <0.5         | 331.4        | <0.5          | <0.5          | <0.5          |
| Dissolved Boron                                  | TM30/PM14               | ug/l  | <12    |                      |                      | 1060         | 957          | 83           | <0.5         | 151          | 142          | <0.5         | 81           | 226          | 405          | 445          | <0.5         | 58            | 48            | 48            |
| Dissolved Cadmium #                              | TM30/PM14               | ug/l  | <0.5   |                      |                      | <0.03        | <0.03        | 0.03         | 1954         | <0.03        | <0.03        | 1455         | <0.03        | <0.03        | <0.03        | <0.03        | 477          | <0.03         | <0.03         | <0.03         |
| Total Dissolved Chromium #                       | TM30/PM14               | ug/l  | <1.5   |                      |                      | 1.3          | 0.9          | <0.2         | <0.03        | 0.6          | 0.3          | <0.03        | 0.4          | 0.6          | 0.7          | 0.8          | <0.03        | 0.3           | 0.2           | 0.2           |
| Dissolved Copper #                               | TM30/PM14               | ug/l  | <7     |                      |                      | <1           | <1           | 2            | 0.4          | 6            | 7            | 1.3          | <1           | <1           | <1           | <1           | 0.8          | 3             | 2             | 2             |
| Total Dissolved Iron #                           | TM30/PM14               | ug/l  | <20    |                      |                      | 8513.4       | 5239.2       | 29.4         | <3           | 428.8        | 97.3         | <3           | 30062.7      | 7925.2       | 18239.6      | 14861        | <3           | 28.9          | 24.3          | 26.4          |
| Dissolved Lead #                                 | TM30/PM14               | ug/l  | <5     |                      |                      | <0.4         | <0.4         | <0.4         | <0.4         | 0.8          | 0.7          | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4          | <0.4          | <0.4          |
| Dissolved Mercury #                              | TM30/PM14               | ug/l  | <1     | 56                   | 0                    | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5          | <0.5          | <0.5          |
| Dissolved Nickel #                               | TM30/PM14               | ug/l  | <2     |                      |                      | 3.5          | 1.6          | 3.5          | 3.7          | 4.2          | 6.7          | 0.7          | 1.3          | 2.7          | 0.7          | 2.5          | 2.2          | 1.7           | 1.6           | 1.9           |
| Dissolved Selenium #                             | TM30/PM14               | ug/l  | <3     |                      |                      | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | 1.3          | <1.2         | <1.2         | <1.2         | <1.2         | <1.2          | <1.2          | <1.2          |
| Dissolved Vanadium #                             | TM30/PM14               | ug/l  | <1.5   |                      |                      | 5.2          | 2.5          | 4.1          | 2.7          | 9.4          | 9.4          | 6.1          | 1.5          | 2.9          | 0.7          | 1            | 2.1          | 1.9           | 1.9           | 1.8           |
| Dissolved Zinc #                                 | TM30/PM14               | ug/l  | <3     |                      |                      | 4.8          | 2.8          | 4.4          | 4.3          | 5.9          | 15.6         | 3.5          | 2.4          | 5.5          | 3.7          | 3            | 8            | 9.9           | 7.4           | 8.1           |
| Total Hardness Dissolved (as CaCO3)              | TM30/PM14               | mg/l  | <1     |                      |                      | 1168         | 1043         | 330          | 611          |              | 293          | 1169         | 795          | 858          | 1027         | 789          | 934          | 251           | 257           | 263           |
| PAH MS                                           |                         |       |        |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Naphthalene #                                    | TM4/PM30                | ug/l  | <0.1   | 23000                | 0                    | <0.1         | 19.9         | <0.1         | <0.1         | <0.1         | <0.1         |              | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1          | <0.1          | <0.1          |
| Acenaphthylene #                                 | TM4/PM30                | ug/l  | <0.005 | 20000000             | 0                    | <0.005       | <0.005       | <0.005       | 0.02         | 0.007        | 0.035        | <0.1         | <0.005       | <0.005       | <0.005       | <0.005       | 0.035        | <0.005        | <0.005        | <0.005        |
| Acenaphthene #                                   | TM4/PM30                | ug/l  | <0.005 | 15000000             | 0                    | 0.103        | 2.543        | 0.303        | 0.929        | <0.005       | 0.208        | 0.039        | 0.008        | 0.008        | 1.013        | 0.925        | 1.199        | <0.005        | <0.005        | <0.005        |
| Fluorene #                                       | TM4/PM30                | ug/l  | <0.005 | 18000000             | 0                    | <0.005       | 1.227        | 0.105        | 0.073        | <0.005       | 0.061        | 1.416        | 0.008        | 0.009        | 0.853        | 0.61         | 0.261        | <0.005        | <0.005        | <0.005        |
| Phenanthrene #                                   | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | 0.913        | 0.014        | 0.075        | <0.005       | 0.065        | 0.171        | <0.005       | 0.008        | 0.257        | 0.039        | 0.044        | <0.005        | <0.005        | <0.005        |
| Anthracene #                                     | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.012        | 0.184        | 0.009        | 0.055        | 0.026        | 0.062        | 0.012        | <0.005       | 0.005        | 0.097        | 0.069        | 0.171        | <0.005        | <0.005        | <0.005        |
| Fluoranthene #                                   | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.016        | 0.098        | 0.025        | 0.135        | 0.007        | 0.277        | 0.045        | 0.005        | 0.011        | 0.163        | 0.068        | 1.871        | 0.011         | <0.005        | 0.015         |
| Pyrene #                                         | TM4/PM30                | ug/l  | <0.005 |                      |                      | 0.011        | 0.06         | 0.019        | 0.095        | 0.007        | 0.313        | 0.067        | 0.005        | 0.012        | 0.112        | 0.052        | 1.244        | 0.009         | <0.005        | 0.013         |
| Benzo(a)anthracene #                             | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.142        | 0.047        | <0.005       | 0.011        | 0.025        | 0.013        | 0.184        | <0.005        | <0.005        | <0.005        |
| Chrysene #                                       | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.184        | 0.012        | <0.005       | 0.007        | 0.021        | 0.014        | 0.195        | <0.005        | <0.005        | <0.005        |
| Benzo(bk)fluoranthene #                          | TM4/PM30                | ug/l  | <0.008 |                      |                      | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.52         | 0.012        | <0.008       | 0.016        | 0.021        | 0.01         | 0.157        | <0.008        | <0.008        | <0.008        |
| Benzo(a)pyrene #                                 | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.284        | 0.012        | <0.005       | 0.009        | 0.01         | 0.006        | 0.087        | 0.007         | <0.005        | 0.007         |
| Indeno(123cd)pyrene #                            | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.216        | 0.006        | <0.005       | 0.007        | 0.006        | <0.005       | 0.047        | <0.005        | <0.005        | 0.006         |
| Dibenzo(ah)anthracene #                          | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.059        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.008        | <0.005        | <0.005        | <0.005        |
| Benzo(ghi)perylene #                             | TM4/PM30                | ug/l  | <0.005 |                      |                      | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.255        | <0.005       | <0.005       | 0.008        | 0.007        | <0.005       | 0.039        | <0.005        | <0.005        | 0.006         |
| PAH 16 Total #                                   | TM4/PM30                | ug/l  | <0.173 |                      |                      | <0.173       | 24.925       | 0.475        | 1.382        | <0.173       | 2.681        | <0.005       | <0.173       | <0.173       | 2.585        | 1.806        | 5.542        | <0.173        | <0.173        | <0.173        |
| Benzo(b)fluoranthene                             | TM4/PM30                | ug/l  | <0.008 |                      |                      | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.374        | 1.839        | <0.008       | 0.012        | 0.015        | <0.008       | 0.113        | <0.008        | <0.008        | <0.008        |
| Benzo(k)fluoranthene                             | TM4/PM30                | ug/l  | <0.008 |                      |                      | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | 0.146        | 0.009        | <0.008       | <0.008       | <0.008       | <0.008       | 0.044        | <0.008        | <0.008        | <0.008        |
| PAH Surrogate % Recovery                         | TM4/PM30                | %     | <0     |                      |                      | 93           | 69           | 97           | 64           | 79           | 95           | <0.008       | 76           | 91           | 91           | 85           | 61           | 90            | 59            | 92            |
| VOC TICs                                         | TM15/PM10               | None  |        |                      |                      | ND           | NA           | ND           | ND           | ND           | ND           | ND           | NA           | NA           | NA           | NA           | NA           | ND            | ND            | NA            |
| Methyl Tertiary Butyl Ether #                    | TM15/PM10               | ug/l  | <0.1   |                      |                      | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Benzene #                                        | TM15/PM10               | ug/l  | <0.5   |                      |                      | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Toluene #                                        | TM15/PM10               | ug/l  | <5     |                      |                      | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Ethylbenzene #                                   | TM15/PM10               | ug/l  | <1     |                      |                      | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| m/p-Xylene #                                     | TM15/PM10               | ug/l  | <2     |                      |                      | <2           | <2           | <2           | <2           | <2           | <2           | <2           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| o-Xylene #                                       | TM15/PM10               | ug/l  | <1     |                      |                      | <1           | <1           | <1           | <1           | <1           | <1           | <1           | <5           | <5           | <5           | <5           | NA           | <5            | <5            | <5            |
| Surrogate Recovery Toluene D8                    | TM15/PM10               | %     | <0     |                      |                      | 107          | 101          | 99           | 110          | 110          | 100          | 108          | NA           | NA           | NA           | NA           | NA           | 100           | 112           | NA            |
| Surrogate Recovery 4-Bromofluorobenzene          | TM15/PM10               | %     | <0     |                      |                      | 107          | 104          | 101          | 103          | 99           | 109          | 98           | NA           | NA           | NA           | NA           | NA           | 100           | 109           | NA            |
| TPH CWG                                          |                         |       |        |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Aliphatics                                       |                         |       |        |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >C5-C6 #                                         | TM36/PM12               | ug/l  | <10    | 190000               | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C6-C8 #                                         | TM36/PM12               | ug/l  | <10    | 150000               | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C8-C10 #                                        | TM36/PM12               | ug/l  | <10    | 5700                 | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C10-C12 #                                       | TM5/PM16/PM30           | ug/l  | <5     | 3600                 | 0                    | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| >C12-C16 #                                       | TM5/PM16/PM30           | ug/l  | <10    |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C16-C21 #                                       | TM5/PM16/PM30           | ug/l  | <10    |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >C21-C35 #                                       | TM5/PM16/PM30           | ug/l  | <10    |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics C5-35 #                         | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10    |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Aromatics                                        |                         |       |        |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >C5-EC7 #                                        | TM36/PM12               | ug/l  | <10    | 2000                 | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC7-EC8 #                                       | TM36/PM12               | ug/l  | <10    | 21000000             | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC8-EC10 #                                      | TM36/PM12               | ug/l  | <10    | 190000               | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC10-EC12 #                                     | TM5/PM16/PM30           | ug/l  | <5     | 660000               | 0                    | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <10          | <10          | <10          | <10          | <5           | <5            | <5            | <5            |



| Risks to Human Heath<br>(Commerical/Industrial)    |                         |       |       | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|----------------------------------------------------|-------------------------|-------|-------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                    |                         |       |       | Depth                |                      | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                                    |                         |       |       | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                    |                         |       |       | Sampled Date         |                      | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                                    |                         |       |       | Sample Received Date |                      | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                               | Method                  | Units | LOD   | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| >EC12-EC16 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   | 3700000              | 0                    | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC16-EC21 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| >EC21-EC35 <sup>#</sup>                            | TM5/PM16/PM30           | ug/l  | <10   |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aromatics C5-35 <sup>#</sup>                 | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total aliphatics and aromatics(C5-35) <sup>#</sup> | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                      |                      | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10           | <10           | <10           |
| Total Phenols HPLC                                 | TM26/PM0                | mg/l  | <0.15 |                      |                      | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15         | <0.15         | <0.15         |
|                                                    |                         |       |       |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Sulphate as SO4 <sup>#</sup>                       | TM89/PM0                | mg/l  | <0.5  |                      |                      | 28.9         | 81.6         | 55.2         | 66           | 165.6        | 84.4         | <0.5         | 3.1          | 223.5        | <0.5         | 9.9          | 36.2         | 37.1          | 34.3          | 34.6          |
| Chloride <sup>#</sup>                              | TM38/PM0                | mg/l  | <0.3  |                      |                      | 32           | 43.3         | 51.1         | 208.2        | 12.3         | 35.2         | 71.7         | 46.2         | 17.4         | 15.5         | 67.8         | 16.4         | 45            | 43.2          | 43.1          |
| Nitrate as NO3 <sup>#</sup>                        | TM38/PM0                | mg/l  | <0.2  |                      |                      | <0.2         | <0.2         | 5.3          | <0.2         | <0.2         | 4.2          | <0.2         | 45.2         | 0.6          | <0.2         | <0.2         | <0.2         | 19.9          | 20.1          | 19.3          |
| Nitrite as NO2 <sup>#</sup>                        | TM38/PM0                | mg/l  | <0.02 |                      |                      | <0.02        | <0.02        | 0.18         | <0.02        | <0.02        | 0.03         | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | 0.06          | 0.05          | 0.05          |
| Ortho Phosphate as PO4 <sup>#</sup>                | TM38/PM0                | mg/l  | <0.06 |                      |                      | <0.06        | 0.1          | 0.56         | 0.16         | <0.06        | 0.14         | 0.38         | <0.06        | <0.06        | <0.06        | <0.06        | 0.38         | 0.66          | 0.52          | 0.39          |
| Total Cyanide <sup>#</sup>                         | TM89/PM0                | mg/l  | <0.01 |                      |                      | 0.02         | 0.02         | <0.01        | 0.03         | 0.01         | <0.01        | 0.1          | <0.01        | 0.02         | <0.01        | <0.01        | 0.33         | <0.01         | <0.01         | <0.01         |
| Ammoniacal Nitrogen as N <sup>#</sup>              | TM38/PM0                | mg/l  | <0.03 |                      |                      | 5.53         | 11.83        | 0.03         | 11.46        | 0.49         | 0.12         | 22.01        | 3.27         | 2.42         | 12.27        | 6.86         | 7.9          | 0.06          | 0.05          | 0.06          |
| Hexavalent Chromium                                | TM38/PM0                | ug/l  | <6    |                      |                      | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Dissolved Chromium III                       | TM0/PM0                 | ug/l  | <6    |                      |                      | <6           | <6           | <6           | <6           | NA           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6            | <6            | <6            |
| Total Alkalinity as CaCO3 <sup>#</sup>             | TM75/PM0                | mg/l  | <1    |                      |                      | 1134         | 868          | 294          | 668          | 192          | 216          | 1064         | 780          | 712          | 1050         | 784          | 790          | 212           | 224           | 228           |
| BTEX                                               |                         |       |       |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| MTBE <sup>#</sup>                                  | TM36/PM12               | ug/l  | <5    | 7800000              | 0                    | <0.1         | <0.1         | <0.1         | NA           | NA           | <0.1         | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| Benzene <sup>#</sup>                               | TM36/PM12               | ug/l  | <5    | 20000                | 0                    | <0.5         | <0.5         | <0.5         | NA           | NA           | <0.5         | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| Toluene <sup>#</sup>                               | TM36/PM12               | ug/l  | <5    | 21000000             | 0                    | <5           | <5           | <5           | NA           | NA           | <5           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| Ethylbenzene <sup>#</sup>                          | TM36/PM12               | ug/l  | <5    | 960000               | 0                    | <1           | <1           | <1           | NA           | NA           | <1           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| m/p-Xylene <sup>#</sup>                            | TM36/PM12               | ug/l  | <5    | 940000               | 0                    | <2           | <2           | <2           | NA           | NA           | <2           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| o-Xylene <sup>#</sup>                              | TM36/PM12               | ug/l  | <5    | 1100000              | 0                    | <1           | <1           | <1           | NA           | NA           | <1           | NA           | <5           | <5           | <5           | <5           | <5           | <5            | <5            | <5            |
| Phenols                                            |                         |       |       |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 2-Chlorophenol <sup>#</sup>                        | TM16/PM30               | ug/l  | <0.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2-Methylphenol <sup>#</sup>                        | TM16/PM30               | ug/l  | <0.5  |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2-Nitrophenol                                      | TM16/PM30               | ug/l  | <0.5  |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2,4-Dichlorophenol <sup>#</sup>                    | TM16/PM30               | ug/l  | <1    |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2,4-Dimethylphenol                                 | TM16/PM30               | ug/l  | <0.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2,4,5-Trichlorophenol <sup>#</sup>                 | TM16/PM30               | ug/l  | <1    |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2,4,6-Trichlorophenol                              | TM16/PM30               | ug/l  | <0.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Chloro-3-methylphenol <sup>#</sup>               | TM16/PM30               | ug/l  | <1    |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 4-Methylphenol                                     | TM16/PM30               | ug/l  | <10   |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Nitrophenol                                      | TM16/PM30               | ug/l  | <1    |                      |                      | <10          | NA           | <10          | <10          | <10          | <10          | <10          | NA           | NA           | NA           | NA           | NA           | <10           | <10           | NA            |
| Pentachlorophenol                                  | TM16/PM30               | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Phenol                                             | TM16/PM30               | ug/l  |       |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| PAHs                                               |                         |       |       |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 2-Chloronaphthalene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2-Methylnaphthalene <sup>#</sup>                   | TM16/PM30               | ug/l  |       |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Phthalates                                         |                         |       |       |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Bis(2-ethylhexyl) phthalate                        | TM16/PM30               | ug/l  | <1    |                      |                      | <5           | NA           | <5           | <5           | <5           | <5           | <5           | NA           | NA           | NA           | NA           | NA           | <5            | <5            | NA            |
| Butylbenzyl phthalate                              | TM16/PM30               | ug/l  | <1.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Di-n-butyl phthalate <sup>#</sup>                  | TM16/PM30               | ug/l  | <1    |                      |                      | <1.5         | NA           | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | NA           | NA           | NA           | NA           | NA           | <1.5          | <1.5          | NA            |
| Di-n-Octyl phthalate                               | TM16/PM30               | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Diethyl phthalate <sup>#</sup>                     | TM16/PM30               | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Dimethyl phthalate                                 | TM16/PM30               | ug/l  |       |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Other SVOCs                                        |                         |       |       |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 1,2-Dichlorobenzene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    | 7200                 | 0                    | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 1,2,4-Trichlorobenzene <sup>#</sup>                | TM16/PM30               | ug/l  | <1    | 220000               | 0                    | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 1,3-Dichlorobenzene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    | 2800                 | 0                    | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 1,4-Dichlorobenzene <sup>#</sup>                   | TM16/PM30               | ug/l  | <1    | 460000               | 0                    | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2-Nitroaniline                                     | TM16/PM30               | ug/l  | <0.5  |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 2,4-Dinitrotoluene <sup>#</sup>                    | TM16/PM30               | ug/l  | <1    |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| 2,6-Dinitrotoluene                                 | TM16/PM30               | ug/l  | <1    |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |

| Risks to Human Heath<br>(Commerical/Industrial) |           |       |      | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-------------------------------------------------|-----------|-------|------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                 |           |       |      | Depth                |                      | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                                 |           |       |      | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                 |           |       |      | Sampled Date         |                      | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                                 |           |       |      | Sample Received Date |                      | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                            | Method    | Units | LOD  | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 3-Nitroaniline                                  | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Bromophenylphenylether <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Chloroaniline                                 | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Chlorophenylphenylether <sup>#</sup>          | TM16/PM30 | ug/l  | <0.5 |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| 4-Nitroaniline                                  | TM16/PM30 | ug/l  | <0.5 |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Azobenzene <sup>#</sup>                         | TM16/PM30 | ug/l  | <0.5 |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Bis(2-chloroethoxy)methane <sup>#</sup>         | TM16/PM30 | ug/l  | <1   |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Bis(2-chloroethyl)ether <sup>#</sup>            | TM16/PM30 | ug/l  | <0.5 |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Carbazole <sup>#</sup>                          | TM16/PM30 | ug/l  | <0.5 |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Dibenzofuran <sup>#</sup>                       | TM16/PM30 | ug/l  | <1   |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Hexachlorobenzene <sup>#</sup>                  | TM16/PM30 | ug/l  | <1   | 1400                 | 0                    | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Hexachlorobutadiene <sup>#</sup>                | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Hexachlorocyclopentadiene                       | TM16/PM30 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Hexachloroethane <sup>#</sup>                   | TM16/PM30 | ug/l  | <0.5 | 740                  | 0                    | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Isophorone <sup>#</sup>                         | TM16/PM30 | ug/l  | <0.5 |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| N-nitrosodi-n-propylamine <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |                      |                      | <0.5         | NA           | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Nitrobenzene <sup>#</sup>                       | TM16/PM30 | ug/l  | <0   |                      |                      | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Surrogate Recovery 2-Fluorobiphenyl             | TM16/PM30 | %     | <0   |                      |                      | 105          | NA           | 89           | 101          | 128          | 97           | 105          | NA           | NA           | NA           | NA           | NA           | 114           | 97            | NA            |
| Surrogate Recovery p-Terphenyl-d14              | TM16/PM30 | %     |      |                      |                      | 113          | NA           | 106          | 113          | 142          | 107          | 113          | NA           | NA           | NA           | NA           | NA           | 118           | 104           | NA            |
| VOC MS                                          |           |       |      |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Dichlorodifluoromethane                         | TM15/PM10 | ug/l  | <2   | 22000                | 0                    | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Methyl Tertiary Butyl Ether <sup>#</sup>        | TM15/PM10 | ug/l  | <0.1 | 290000               | 0                    | <0.1         | NA           | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | NA            |
| Chloromethane <sup>#</sup>                      | TM15/PM10 | ug/l  | <3   | 150000               | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Vinyl Chloride <sup>#</sup>                     | TM15/PM10 | ug/l  | <0.1 | 49000                | 0                    | <0.1         | NA           | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | NA           | NA           | NA           | NA           | NA           | <0.1          | <0.1          | NA            |
| Bromomethane                                    | TM15/PM10 | ug/l  | <1   | 260000               | 0                    | <1           | NA           | <1           | <1           | <1           | <1           | <1           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Chloroethane <sup>#</sup>                       | TM15/PM10 | ug/l  | <3   | 16000                | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Trichlorofluoromethane <sup>#</sup>             | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup>       | TM15/PM10 | ug/l  | <3   | 3100                 | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Dichloromethane (DCM) <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| trans-1-2-Dichloroethene <sup>#</sup>           | TM15/PM10 | ug/l  | <3   | 7200                 | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,1-Dichloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   | 2200                 | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| cis-1-2-Dichloroethene <sup>#</sup>             | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <1           | <1           | <3           | <1           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 2,2-Dichloropropane                             | TM15/PM10 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <2           | <2           | <1           | <2           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| Bromochloromethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <2   | 220000               | 0                    | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Chloroform <sup>#</sup>                         | TM15/PM10 | ug/l  | <2   | 15000                | 0                    | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,1,1-Trichloroethane <sup>#</sup>              | TM15/PM10 | ug/l  | <2   | 2600                 | 0                    | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,1-Dichloropropene <sup>#</sup>                | TM15/PM10 | ug/l  | <3   | 2200                 | 0                    | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Carbon tetrachloride <sup>#</sup>               | TM15/PM10 | ug/l  | <2   | 2800                 | 0                    | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,2-Dichloroethane <sup>#</sup>                 | TM15/PM10 | ug/l  | <2   |                      |                      | <2           | NA           | <2           | <0.5         | <0.5         | <2           | <0.5         | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Benzene <sup>#</sup>                            | TM15/PM10 | ug/l  | <0.5 | 460000               | 0                    | <0.5         | NA           | <0.5         | <3           | <3           | <0.5         | <3           | NA           | NA           | NA           | NA           | NA           | <0.5          | <0.5          | NA            |
| Trichloroethene (TCE) <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2-Dichloropropane <sup>#</sup>                | TM15/PM10 | ug/l  | <2   | 640000               | 0                    | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Dibromomethane <sup>#</sup>                     | TM15/PM10 | ug/l  | <3   |                      |                      | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Bromodichloromethane <sup>#</sup>               | TM15/PM10 | ug/l  | <2   |                      |                      | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| cis-1-3-Dichloropropene                         | TM15/PM10 | ug/l  | <2   | 20000                | 0                    | <2           | NA           | <2           | <5           | <5           | <2           | <5           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Toluene <sup>#</sup>                            | TM15/PM10 | ug/l  | <5   | 20000                | 0                    | <5           | NA           | <5           | <2           | <2           | <5           | <2           | NA           | NA           | NA           | NA           | NA           | <5            | <5            | NA            |
| trans-1-3-Dichloropropene                       | TM15/PM10 | ug/l  | <2   |                      |                      | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,1,2-Trichloroethane <sup>#</sup>              | TM15/PM10 | ug/l  | <2   | 1600                 | 0                    | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Tetrachloroethene (PCE) <sup>#</sup>            | TM15/PM10 | ug/l  | <3   | 400000               | 0                    | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,3-Dichloropropane <sup>#</sup>                | TM15/PM10 | ug/l  | <2   |                      |                      | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Dibromochloromethane <sup>#</sup>               | TM15/PM10 | ug/l  | <2   | 770                  | 0                    | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,2-Dibromoethane <sup>#</sup>                  | TM15/PM10 | ug/l  | <2   | 15000                | 0                    | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Chlorobenzene <sup>#</sup>                      | TM15/PM10 | ug/l  | <2   | 1000000              | 0                    | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,1,1,2-Tetrachloroethane <sup>#</sup>          | TM15/PM10 | ug/l  | <2   | 85000                | 0                    | <2           | NA           | <2           | <1           | <1           | <2           | <1           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Ethylbenzene <sup>#</sup>                       | TM15/PM10 | ug/l  | <1   | 1400                 | 0                    | <1           | NA           | <1           | <2           | <2           | <1           | <2           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |
| m/p-Xylene <sup>#</sup>                         | TM15/PM10 | ug/l  | <2   | 13000                | 0                    | <2           | NA           | <2           | <1           | <1           | <2           | <1           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| o-Xylene <sup>#</sup>                           | TM15/PM10 | ug/l  | <1   |                      |                      | <1           | NA           | <1           | <2           | <2           | <1           | <2           | NA           | NA           | NA           | NA           | NA           | <1            | <1            | NA            |

| Risks to Human Heath<br>(Commerical/Industrial) |             |       |       | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-------------------------------------------------|-------------|-------|-------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                 |             |       |       | Depth                |                      | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                                 |             |       |       | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                 |             |       |       | Sampled Date         |                      | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                                 |             |       |       | Sample Received Date |                      | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                            | Method      | Units | LOD   | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| Styrene                                         | TM15/PM10   | ug/l  | <2    |                      |                      | <2           | NA           | <2           | <2           | <2           | <2           | <2           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Bromoform #                                     | TM15/PM10   | ug/l  | <2    |                      |                      | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| Isopropylbenzene #                              | TM15/PM10   | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <4           | <4           | <3           | <4           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,1,2,2-Tetrachloroethane                       | TM15/PM10   | ug/l  | <4    |                      |                      | <4           | NA           | <4           | <2           | <2           | <4           | <2           | NA           | NA           | NA           | NA           | NA           | <4            | <4            | NA            |
| Bromobenzene #                                  | TM15/PM10   | ug/l  | <2    | 960000               | 0                    | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,2,3-Trichloropropane #                        | TM15/PM10   | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Propylbenzene #                                 | TM15/PM10   | ug/l  | <3    | 86000                | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 2-Chlorotoluene #                               | TM15/PM10   | ug/l  | <3    | 940000               | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,3,5-Trimethylbenzene #                        | TM15/PM10   | ug/l  | <3    | 7800000              | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 4-Chlorotoluene #                               | TM15/PM10   | ug/l  | <3    | 23000                | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| tert-Butylbenzene #                             | TM15/PM10   | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2,4-Trimethylbenzene #                        | TM15/PM10   | ug/l  | <3    | 1100000              | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| sec-Butylbenzene #                              | TM15/PM10   | ug/l  | <3    | 240000               | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 4-Isopropyltoluene #                            | TM15/PM10   | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,3-Dichlorobenzene #                           | TM15/PM10   | ug/l  | <3    | 810000               | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,4-Dichlorobenzene #                           | TM15/PM10   | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| n-Butylbenzene #                                | TM15/PM10   | ug/l  | <3    | 6100                 | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2-Dichlorobenzene #                           | TM15/PM10   | ug/l  | <3    | 21000000             | 0                    | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| 1,2-Dibromo-3-chloropropane                     | TM15/PM10   | ug/l  | <2    | 16000                | 0                    | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,2,4-Trichlorobenzene                          | TM15/PM10   | ug/l  | <3    |                      |                      | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Hexachlorobutadiene                             | TM15/PM10   | ug/l  | <3    | 310                  | 0                    | <3           | NA           | <3           | <2           | <2           | <3           | <2           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Naphthalene                                     | TM15/PM10   | ug/l  | <2    |                      |                      | <2           | NA           | <2           | <3           | <3           | <2           | <3           | NA           | NA           | NA           | NA           | NA           | <2            | <2            | NA            |
| 1,2,3-Trichlorobenzene                          | TM15/PM10   | ug/l  | <3    | 1200                 | 0                    | <3           | NA           | <3           | <3           | <3           | <3           | <3           | NA           | NA           | NA           | NA           | NA           | <3            | <3            | NA            |
| Surrogate Recovery Toluene D8                   | TM15/PM10   | %     | <0    |                      |                      | 107          | NA           | 99           | 103          | 99           | 100          | 98           | NA           | NA           | NA           | NA           | NA           | 100           | 112           | NA            |
| Surrogate Recovery 4-Bromofluorobenzene         | TM15/PM10   | %     | <0    |                      |                      | 107          | NA           | 101          |              |              | 109          |              | NA           | NA           | NA           | NA           | NA           | 100           | 109           | NA            |
|                                                 |             |       |       |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| SVOC TICs                                       | TM16/PM30   | None  |       |                      |                      | ND           | NA           | ND           |              |              | ND           |              | NA           | NA           | NA           | NA           |              | ND            | ND            | NA            |
| PFAAS                                           |             |       |       |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| PFBA                                            | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.102        | NA           | 0.013        | NA           | NA           | 0.029        | NA           | NA           | NA           | NA           | NA           | NA           | 0.012         | 0.013         | NA            |
| PFPeA                                           | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.055        | NA           | 0.009        | NA           | NA           | 0.031        | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.006         | NA            |
| PFHxA                                           | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.041        | NA           | 0.007        | NA           | NA           | 0.027        | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.007         | NA            |
| PFHpA                                           | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.018        | NA           | 0.003        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | 0.002         | NA            |
| PFOA                                            | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.0878       | NA           | 0.0125       | NA           | NA           | 0.0129       | NA           | NA           | NA           | NA           | NA           | NA           | 0.0061        | 0.006         | NA            |
| PFNA                                            | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.010       | NA           | <0.001       | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDA                                            | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFUnA                                           | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDoA                                           | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFTTrDA                                         | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.006       | NA           | <0.006       | NA           | NA           | <0.006       | NA           | NA           | NA           | NA           | NA           | NA           | <0.006        | <0.006        | NA            |
| PFTeDA                                          | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFHxDA                                          | TM135/PM121 | ug/l  | <0.1  |                      | 0                    | <0.01        | NA           | <0.01        | NA           | NA           | <0.01        | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | NA            |
| PFODA                                           | TM135/PM121 | ug/l  | <0.1  |                      | 0                    | <0.025       | NA           | <0.025       | NA           | NA           | <0.025       | NA           | NA           | NA           | NA           | NA           | NA           | <0.025        | <0.025        | NA            |
| PFBS                                            | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.021        | NA           | 0.006        | NA           | NA           | 0.114        | NA           | NA           | NA           | NA           | NA           | NA           | 0.007         | 0.006         | NA            |
| PFPeS                                           | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.010       | NA           | 0.001        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFHxS                                           | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.047        | NA           | 0.007        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | 0.006         | 0.005         | NA            |
| PFHpS                                           | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.001        | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFOS                                            | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | 0.0495       | NA           | 0.0159       | NA           | NA           | 0.0243       | NA           | NA           | NA           | NA           | NA           | NA           | 0.0067        | 0.0066        | NA            |
| PFNS                                            | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | 0.001         | <0.001        | NA            |
| PFDS                                            | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFUnDS                                          | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFDoDS                                          | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFTTrDS                                         | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| HFPO-DA (Gen X)                                 | TM135/PM121 | ug/l  | <0.05 |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |



| Risks to Human Heath<br>(Commerical/Industrial) |             |       |          | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|-------------------------------------------------|-------------|-------|----------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                 |             |       |          | Depth                |                      | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                                 |             |       |          | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                 |             |       |          | Sampled Date         |                      | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                                 |             |       |          | Sample Received Date |                      | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                            | Method      | Units | LOD      | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| HFPO-TA                                         | TM135/PM121 | ug/l  | <1       |                      | 0                    | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| DONA                                            | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFMOPrA                                         | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | <0.010       | NA           | 0.016        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | 0.133         | 0.133         | NA            |
| NFDHA                                           | TM135/PM121 | ug/l  | <0.1     |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| PFMOBA                                          | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | <0.001       | NA           | <0.005       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | 0.015         | 0.015         | NA            |
| PFECHS                                          | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | 0.023        | NA           | 0.002        | NA           | NA           | <0.010       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 3:3 FTCA                                        | TM135/PM121 | ug/l  | <0.1     |                      | 0                    | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| 5:3 FTCA                                        | TM135/PM121 | ug/l  | <0.5     |                      | 0                    | <0.01        | NA           | <0.01        | NA           | NA           | <0.01        | NA           | NA           | NA           | NA           | NA           | NA           | <0.01         | <0.01         | NA            |
| 7:3 FTCA                                        | TM135/PM121 | ug/l  | <0.1     |                      | 0                    | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| PFEESA                                          | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 9CI-PF3ONS                                      | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 11CI-PF3OUdS                                    | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | <0.001       | NA           | <0.001       | NA           | NA           | <0.001       | NA           | NA           | NA           | NA           | NA           | NA           | <0.001        | <0.001        | NA            |
| 4:2 FTS                                         | TM135/PM121 | ug/l  | <0.2     |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 6:2 FTS                                         | TM135/PM121 | ug/l  | <0.2     |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 8:2 FTS                                         | TM135/PM121 | ug/l  | <0.2     |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| FBSA                                            | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| FHxSA                                           | TM135/PM121 | ug/l  | <0.05    |                      | 0                    | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| FOSA                                            | TM135/PM121 | ug/l  | <1       |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-MeFOSA                                        | TM135/PM121 | ug/l  | <1       |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-EtFOSA                                        | TM135/PM121 | ug/l  | <1       |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| Me-FOSE                                         | TM135/PM121 | ug/l  | <0.1     |                      | 0                    | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| Et-FOSE                                         | TM135/PM121 | ug/l  | <0.1     |                      | 0                    | <0.02        | NA           | <0.02        | NA           | NA           | <0.02        | NA           | NA           | NA           | NA           | NA           | NA           | <0.02         | <0.02         | NA            |
| N-MeFOSAA                                       | TM135/PM121 | ug/l  | <1       |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| N-EtFOSAA                                       | TM135/PM121 | ug/l  | <1       |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| 8:2diPAP                                        | TM135/PM121 | ug/l  | <0.2     |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| FOUEA                                           | TM135/PM121 | ug/l  | <1       |                      | 0                    | <0.005       | NA           | <0.005       | NA           | NA           | <0.005       | NA           | NA           | NA           | NA           | NA           | NA           | <0.005        | <0.005        | NA            |
| PFBS #                                          | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.021        |              | 0.006        | 0.022        | 0.02         | 0.114        | 0.021        |              |              |              |              |              | 0.007         | 0.006         |               |
| PFPeS #                                         | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.010       |              | 0.001        | 0.014        | <0.010       | <0.010       | <0.010       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFHxS #                                         | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.047        |              | 0.007        | 0.103        | <0.010       | <0.010       | 0.049        |              |              |              |              |              | 0.006         | 0.005         |               |
| PFHpS #                                         | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.001        |              | <0.001       | 0.019        | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFOS #                                          | TM135/PM122 | ug/l  | <0.00065 |                      |                      | 0.0495       |              | 0.0159       | 3.4078       | 0.0512       | 0.0243       | 0.0324       |              |              |              |              |              | 0.0067        | 0.0066        |               |
| PFNS                                            | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | 0.001         | <0.001        |               |
| PFDS                                            | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFUnDS                                          | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | 0.001        |              |              |              |              |              | <0.001        | <0.001        |               |
| PFDoDS                                          | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFTriDS                                         | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| HFPO-DA (Gen X)                                 | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.001       | <0.010       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| HFPO-TA                                         | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        |              | <0.02        | <0.20        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| DONA #                                          | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFMOPrA                                         | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.010       |              | 0.016        | <0.020       | <0.020       | <0.010       | <0.020       |              |              |              |              |              | 0.133         | 0.133         |               |
| NFDHA                                           | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| PFMOBA                                          | TM135/PM122 | ug/l  | <0.001   |                      |                      | <0.001       |              | <0.005       | <0.010       | <0.010       | <0.001       | <0.010       |              |              |              |              |              | 0.015         | 0.015         |               |
| PFECHS                                          | TM135/PM122 | ug/l  | <0.001   |                      |                      | 0.023        |              | 0.002        | 0.319        | <0.010       | <0.010       | 0.06         |              |              |              |              |              | <0.001        | <0.001        |               |
| 3:3 FTCA                                        | TM135/PM122 | ug/l  | <0.02    |                      |                      | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| 5:3 FTCA                                        | TM135/PM122 | ug/l  | <0.01    |                      |                      | <0.01        |              | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |              |              |              |              |              | <0.01         | <0.01         |               |

| Risks to Human Heatlh<br>(Commerical/Industrial) |                |          |        | Sample ID            |                      | BH2513       | BH2514       | BH2516       | BH2517       | BH2518       | BH2520       | BH2522       | BH2526       | BH2527       | WS06         | WS07         | WS13         | SW01          | SW02          | SW03          |
|--------------------------------------------------|----------------|----------|--------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
|                                                  |                |          |        | Depth                |                      | 3.8          | 4.1          | 3.5          | 3.11         | 1.40         | 2.90         | 2.5          | 2.40         | 2.35         | 2.50         | 2.83         | 3.30         |               |               |               |
|                                                  |                |          |        | Sample Type          |                      | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Surface Water | Surface Water | Surface Water |
|                                                  |                |          |        | Sampled Date         |                      | 10/07/2024   | 10/07/2024   | 10/07/2024   | 08/07/2024   | 08/07/2024   | 10/07/2024   | 08/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 09/07/2024   | 08/07/2024   | 09/07/2024    | 09/07/2024    | 09/07/2024    |
|                                                  |                |          |        | Sample Received Date |                      | 11/07/2024   | 11/07/2024   | 11/07/2024   | 09/07/2024   | 09/07/2024   | 11/07/2024   | 09/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 10/07/2024   | 09/07/2024   | 10/07/2024    | 10/07/2024    | 10/07/2024    |
| Test                                             | Method         | Units    | LOD    | GAC HH               | No. GAC Exceedance s |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 7:3 FTCA                                         | TM135/PM122    | ug/l     | <0.02  |                      |                      | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| PFEESA                                           | TM135/PM122    | ug/l     | <0.001 |                      |                      | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| 9CI-PF3ONS #                                     | TM135/PM122    | ug/l     | <0.001 |                      |                      | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| 11CI-PF3OUdS                                     | TM135/PM122    | ug/l     | <0.001 |                      |                      | <0.001       |              | <0.001       | <0.001       | <0.001       | <0.001       | <0.001       |              |              |              |              |              | <0.001        | <0.001        |               |
| 4:2 FTS                                          | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| 6:2 FTS                                          | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.050       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| 8:2 FTS                                          | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| FBSA                                             | TM135/PM122    | ug/l     | <0.02  |                      |                      | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| FHxSA                                            | TM135/PM122    | ug/l     | <0.02  |                      |                      | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| FOSA                                             | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| N-MeFOSA                                         | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| N-EtFOSA                                         | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| Me-FOSE                                          | TM135/PM122    | ug/l     | <0.02  |                      |                      | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| Et-FOSE                                          | TM135/PM122    | ug/l     | <0.02  |                      |                      | <0.02        |              | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        |              |              |              |              |              | <0.02         | <0.02         |               |
| N-MeFOSAA                                        | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| N-EtFOSAA                                        | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.050       |              |              |              |              |              | <0.005        | <0.005        |               |
| 8:2diPAP                                         | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
| FOUEA                                            | TM135/PM122    | ug/l     | <0.005 |                      |                      | <0.005       |              | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |              |              |              |              |              | <0.005        | <0.005        |               |
|                                                  |                |          |        |                      |                      |              |              |              |              |              |              |              |              |              |              |              |              |               |               |               |
| 1,4-Dioxane*                                     | Subcontracted/ | ug/l     | <0.07  |                      | 0                    | <21.00       | NA           | <28.00       | NA           | NA           | <28.00       | NA           | NA           | NA           | NA           | NA           | NA           | <28.00        | <21.00        | NA            |
| BOD (Settled) #                                  | TM58/PM0       | mg/l     | <1     |                      | 0                    | 14           | 14           | 8            | NA           | NA           | <3           | NA           | 21           | <3           | 26           | 25           | NA           | <2            | <2            | <2            |
| COD (Settled) #                                  | TM57/PM0       | mg/l     | <7     |                      | 0                    | 104          | 75           | 8            | NA           | NA           | 49           | NA           | 84           | 62           | 36           | 39           | NA           | 12            | 14            | 13            |
| Dissolved Organic Carbon #                       | TM60/PM0       | mg/l     | <2     |                      | 0                    | 33           | 18           | <2           | NA           | NA           | 8            | NA           | 24           | 26           | 5            | 18           | NA           | 3             | 2             | 2             |
| Free Ammonia as NH3                              | TM176/PM0      | mg/l     | <0.007 |                      | 0                    | 0.032        | 0.108        | <0.007       | NA           | NA           | <0.007       | NA           | 0.015        | 0.021        | 0.079        | 0.022        | NA           | <0.007        | <0.007        | <0.007        |
| pH #                                             | TM73/PM0       | pH units | <0.01  |                      | 0                    | 7.7          | 7.86         | 8.02         | NA           | NA           | 7.93         | NA           | 7.67         | 7.65         | 7.33         | 7.5          | NA           | 8.17          | 8.3           | 8.21          |

| Risks to Human Heatlh<br>(Commerical/Industrial) |               |       |        | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|--------------------------------------------------|---------------|-------|--------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                  |               |       |        | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                                  |               |       |        | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                                  |               |       |        | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                                  |               |       |        | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   |
| Test                                             | Method        | Units | LOD    | GAC HH               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| Metals                                           |               |       |        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Dissolved Arsenic #                              | TM30/PM14     | ug/l  | <2.5   |                      |                     | 1.3           | 1.2           | 1.1           | 4.7          | 14.5         | 2.6          | 7.9          | 3.8          | 4            | 2.9          | 2            | 38.8         |
| Dissolved Beryllium                              | TM30/PM14     | ug/l  | <0.5   |                      |                     | <0.5          | <0.5          | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |
| Dissolved Boron                                  | TM30/PM14     | ug/l  | <12    |                      |                     | 63            | 71            | 49            | 546          | 284          | 122          | 2207         | 168          | 1202         | 439          | 1172         | 90           |
| Dissolved Cadmium #                              | TM30/PM14     | ug/l  | <0.5   |                      |                     | <0.03         | <0.03         | <0.03         | <0.03        | <0.03        | 0.07         | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        |
| Total Dissolved Chromium #                       | TM30/PM14     | ug/l  | <1.5   |                      |                     | 1.7           | 0.2           | 1.2           | 0.7          | 0.6          | 0.5          | 0.9          | 6.5          | 0.8          | 8.9          | 2.2          | 0.9          |
| Dissolved Copper #                               | TM30/PM14     | ug/l  | <7     |                      |                     | 3             | 2             | 2             | 2            | <1           | 12           | <1           | 3            | <1           | 3            | <1           | <1           |
| Total Dissolved Iron #                           | TM30/PM14     | ug/l  | <20    |                      |                     | 24.4          | 23.9          | 20.9          | 2093         | 4943.3       | 14.3         | 494.6        | 188.2        | 2055.8       | 34.7         | 2310.7       | 29807.3      |
| Dissolved Lead #                                 | TM30/PM14     | ug/l  | <5     |                      |                     | <0.4          | <0.4          | <0.4          | <0.4         | <0.4         | 1.8          | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         | <0.4         |
| Dissolved Mercury #                              | TM30/PM14     | ug/l  | <1     | 56                   | 0                   | <0.5          | <0.5          | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         |
| Dissolved Nickel #                               | TM30/PM14     | ug/l  | <2     |                      |                     | 1.9           | 1.8           | 1.7           | 3.8          | 4.3          | 5.9          | 2.8          | 2.9          | 2.4          | 5.4          | 1.2          | 1.7          |
| Dissolved Selenium #                             | TM30/PM14     | ug/l  | <3     |                      |                     | <1.2          | <1.2          | <1.2          | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | <1.2         | 1.2          |
| Dissolved Vanadium #                             | TM30/PM14     | ug/l  | <1.5   |                      |                     | 1.9           | 1.9           | 2.1           | 3.9          | 1.5          | 8.3          | 3            | 9.8          | 2.3          | 6.4          | 7.5          | 2.6          |
| Dissolved Zinc #                                 | TM30/PM14     | ug/l  | <3     |                      |                     | 7             | 6.5           | 6.7           | 6            | 2.9          | 20.3         | 3.6          | 3.7          | 1.9          | 5.5          | 2.7          | 8.7          |
| Total Hardness Dissolved (as CaCO3)              | TM30/PM14     | mg/l  | <1     |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| PAH MS                                           |               |       |        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Naphthalene #                                    | TM4/PM30      | ug/l  | <0.1   | 23000                | 0                   | <0.1          | <0.1          | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | 17.7         | <0.1         | <0.1         | <0.1         |
| Acenaphthylene #                                 | TM4/PM30      | ug/l  | <0.005 | 20000000             | 0                   | 0.009         | <0.005        | <0.005        | 0.009        | <0.005       | 0.03         | 0.024        | 0.007        | <0.005       | 0.099        | <0.005       | <0.005       |
| Acenaphthene #                                   | TM4/PM30      | ug/l  | <0.005 | 15000000             | 0                   | <0.005        | <0.005        | <0.005        | 0.196        | 0.007        | 0.062        | 1.897        | 0.008        | 4.325        | 3.548        | 0.006        | <0.005       |
| Fluorene #                                       | TM4/PM30      | ug/l  | <0.005 | 18000000             | 0                   | <0.005        | <0.005        | <0.005        | 0.015        | 0.005        | 0.015        | 0.07         | <0.005       | 2.068        | 0.699        | 0.005        | <0.005       |
| Phenanthrene #                                   | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.021         | 0.005         | 0.006         | 0.009        | 0.008        | 0.035        | 0.506        | 0.005        | 1.465        | 0.067        | 0.005        | <0.005       |
| Anthracene #                                     | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.016         | <0.005        | <0.005        | 0.019        | 0.007        | 0.062        | 0.134        | 0.026        | 0.358        | 0.051        | <0.005       | <0.005       |
| Fluoranthene #                                   | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.109         | 0.012         | 0.013         | 0.041        | 0.012        | 0.17         | 0.281        | 0.014        | 0.232        | 0.42         | <0.005       | <0.005       |
| Pyrene #                                         | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.108         | 0.013         | 0.012         | 0.033        | 0.012        | 0.192        | 0.175        | 0.014        | 0.141        | 0.236        | <0.005       | <0.005       |
| Benzo(a)anthracene #                             | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.068         | 0.006         | 0.005         | 0.005        | 0.006        | 0.105        | 0.012        | 0.007        | 0.005        | 0.007        | <0.005       | <0.005       |
| Chrysene #                                       | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.088         | 0.005         | 0.007         | 0.006        | 0.006        | 0.159        | 0.015        | 0.008        | 0.005        | 0.005        | <0.005       | <0.005       |
| Benzo(bk)fluoranthene #                          | TM4/PM30      | ug/l  | <0.008 |                      |                     | 0.214         | 0.01          | 0.013         | 0.011        | 0.011        | 0.484        | 0.01         | 0.017        | <0.008       | <0.008       | <0.008       | <0.008       |
| Benzo(a)pyrene #                                 | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.11          | 0.005         | 0.006         | 0.006        | 0.005        | 0.217        | 0.005        | 0.009        | <0.005       | <0.005       | <0.005       | <0.005       |
| Indeno(123cd)pyrene #                            | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.092         | <0.005        | 0.005         | 0.005        | <0.005       | 0.208        | <0.005       | 0.007        | <0.005       | <0.005       | <0.005       | <0.005       |
| Dibenzo(ah)anthracene #                          | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.018         | <0.005        | <0.005        | <0.005       | <0.005       | 0.038        | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       |
| Benzo(ghi)perylene #                             | TM4/PM30      | ug/l  | <0.005 |                      |                     | 0.092         | 0.005         | 0.006         | 0.005        | <0.005       | 0.229        | <0.005       | 0.008        | <0.005       | <0.005       | <0.005       | <0.005       |
| PAH 16 Total #                                   | TM4/PM30      | ug/l  | <0.173 |                      |                     | 0.945         | <0.173        | <0.173        | 0.36         | <0.173       | 2.006        | 3.129        | <0.173       | 26.299       | 5.132        | <0.173       | <0.173       |
| Benzo(b)fluoranthene                             | TM4/PM30      | ug/l  | <0.008 |                      |                     | 0.154         | <0.008        | 0.009         | <0.008       | <0.008       | 0.348        | <0.008       | 0.012        | <0.008       | <0.008       | <0.008       | <0.008       |
| Benzo(k)fluoranthene                             | TM4/PM30      | ug/l  | <0.008 |                      |                     | 0.06          | <0.008        | <0.008        | <0.008       | <0.008       | 0.136        | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       | <0.008       |
| PAH Surrogate % Recovery                         | TM4/PM30      | %     | <0     |                      |                     | 63            | 88            | 80            | 85           | 76           | 82           | 78           | 79           | 82           | 86           | 72           | 87           |
| VOC TICs                                         | TM15/PM10     | None  |        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Methyl Tertiary Butyl Ether #                    | TM15/PM10     | ug/l  | <0.1   |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Benzene #                                        | TM15/PM10     | ug/l  | <0.5   |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Toluene #                                        | TM15/PM10     | ug/l  | <5     |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Ethylbenzene #                                   | TM15/PM10     | ug/l  | <1     |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| m/p-Xylene #                                     | TM15/PM10     | ug/l  | <2     |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| o-Xylene #                                       | TM15/PM10     | ug/l  | <1     |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Surrogate Recovery Toluene D8                    | TM15/PM10     | %     | <0     |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Surrogate Recovery 4-Bromofluorobenzene          | TM15/PM10     | %     | <0     |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| TPH CWG                                          |               |       |        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Aliphatics                                       |               |       |        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| >C5-C6 #                                         | TM36/PM12     | ug/l  | <10    | 190000               | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C6-C8 #                                         | TM36/PM12     | ug/l  | <10    | 150000               | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C8-C10 #                                        | TM36/PM12     | ug/l  | <10    | 5700                 | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C10-C12 #                                       | TM5/PM16/PM30 | ug/l  | <5     | 3600                 | 0                   | <5            | <5            | <5            | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |
| >C12-C16 #                                       | TM5/PM16/PM30 | ug/l  | <10    |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C16-C21 #                                       | TM5/PM16/PM30 | ug/l  | <10    |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >C21-C35 #                                       | TM5/PM16/PM30 | ug/l  | <10    |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total aliphatics C5-35 #                         |               |       |        |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |

| Risks to Human Heatlh<br>(Commerical/Industrial) |                         |       |       | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|--------------------------------------------------|-------------------------|-------|-------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                  |                         |       |       | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                                  |                         |       |       | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                                  |                         |       |       | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                                  |                         |       |       | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                             | Method                  | Units | LOD   | GAC HH               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| >C5-EC7 #                                        | TM36/PM12               | ug/l  | <10   | 2000                 | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC7-EC8 #                                       | TM36/PM12               | ug/l  | <10   | 21000000             | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC8-EC10 #                                      | TM36/PM12               | ug/l  | <10   | 190000               | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC10-EC12 #                                     | TM5/PM16/PM30           | ug/l  | <5    | 660000               | 0                   | <5            | <5            | <5            | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           | <5           |
| >EC12-EC16 #                                     | TM5/PM16/PM30           | ug/l  | <10   | 3700000              | 0                   | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC16-EC21 #                                     | TM5/PM16/PM30           | ug/l  | <10   |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| >EC21-EC35 #                                     | TM5/PM16/PM30           | ug/l  | <10   |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total aromatics C5-35 #                          | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total aliphatics and aromatics(C5-35) #          | TM5/TM36/PM12/PM16/PM30 | ug/l  | <10   |                      |                     | <10           | <10           | <10           | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          | <10          |
| Total Phenols HPLC                               | TM26/PM0                | mg/l  | <0.15 |                      |                     | <0.15         | <0.15         | <0.15         | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        | <0.15        |
|                                                  |                         |       |       |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Sulphate as SO4 #                                | TM89/PM0                | mg/l  | <0.5  |                      |                     | 42.2          | 37.6          | 36.9          | 192.2        | 403.5        | 74           | 18.8         | 113.6        | 247.2        | 204.7        | <0.5         | 24.9         |
| Chloride #                                       | TM38/PM0                | mg/l  | <0.3  |                      |                     | 47.2          | 48.4          | 48.2          | 21.8         | 10           | 12.1         | 217.5        | 9.6          | 24.5         | 40.9         | 34.1         | 44.3         |
| Nitrate as NO3 #                                 | TM38/PM0                | mg/l  | <0.2  |                      |                     | 24.8          | 28.7          | 28.6          | <0.2         | <0.2         | 3.5          | <0.2         | <0.2         | <0.2         | 2.7          | <0.2         | <0.2         |
| Nitrite as NO2 #                                 | TM38/PM0                | mg/l  | <0.02 |                      |                     | <0.02         | 0.02          | 0.03          | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | <0.02        | 0.05         | <0.02        |
| Ortho Phosphate as PO4 #                         | TM38/PM0                | mg/l  | <0.06 |                      |                     | 1.03          | 0.84          | 0.76          | <0.06        | <0.06        | 0.18         | 0.95         | 0.1          | <0.06        | 0.8          | 0.18         | <0.06        |
| Total Cyanide #                                  | TM89/PM0                | mg/l  | <0.01 |                      |                     | <0.01         | <0.01         | <0.01         | 0.03         | 0.03         | <0.01        | 0.02         | <0.01        | <0.01        | 0.02         | <0.01        | <0.01        |
| Ammoniacal Nitrogen as N #                       | TM38/PM0                | mg/l  | <0.03 |                      |                     | 0.03          | 0.03          | 0.03          | 3.75         | 2.3          | 0.04         | 13.89        | 0.68         | 5.08         | 1.26         | 12.15        | 4.93         |
| Hexavalent Chromium                              | TM38/PM0                | ug/l  | <6    |                      |                     | <6            | <6            | <6            | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           | <6           |
| Total Dissolved Chromium III                     | TM0/PM0                 | ug/l  | <6    |                      |                     | <6            | <6            | <6            | <6           | <6           | <6           | <6           | 7            | <6           | 9            | <6           | <6           |
| Total Alkalinity as CaCO3 #                      | TM75/PM0                | mg/l  | <1    |                      |                     | 224           | 242           | 256           | 820          | 518          | 238          | 744          | 216          | 612          | 422          | 862          | 800          |
| BTEX                                             |                         |       |       |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| MTBE #                                           | TM36/PM12               | ug/l  | <5    | 7800000              | 0                   | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | <0.1         |
| Benzene #                                        | TM36/PM12               | ug/l  | <5    | 20000                | 0                   | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | <0.5         |
| Toluene #                                        | TM36/PM12               | ug/l  | <5    | 21000000             | 0                   | <5            | <5            | -             | <5           | <5           | <5           | <5           | <5           | <5           | -            | <5           | <5           |
| Ethylbenzene #                                   | TM36/PM12               | ug/l  | <5    | 960000               | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| m/p-Xylene #                                     | TM36/PM12               | ug/l  | <5    | 940000               | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | <2           | -            | <2           | <2           |
| o-Xylene #                                       | TM36/PM12               | ug/l  | <5    | 1100000              | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| Phenols                                          |                         |       |       |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 2-Chlorophenol #                                 | TM16/PM30               | ug/l  | <0.5  |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| 2-Methylphenol #                                 | TM16/PM30               | ug/l  | <0.5  |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | <0.5         |
| 2-Nitrophenol                                    | TM16/PM30               | ug/l  | <0.5  |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | <0.5         |
| 2,4-Dichlorophenol #                             | TM16/PM30               | ug/l  | <1    |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | <0.5         |
| 2,4-Dimethylphenol                               | TM16/PM30               | ug/l  | <0.5  |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| 2,4,5-Trichlorophenol #                          | TM16/PM30               | ug/l  | <1    |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | <0.5         |
| 2,4,6-Trichlorophenol                            | TM16/PM30               | ug/l  | <0.5  |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| 4-Chloro-3-methylphenol #                        | TM16/PM30               | ug/l  | <1    |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | <0.5         |
| 4-Methylphenol                                   | TM16/PM30               | ug/l  | <10   |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | 2            |
| 4-Nitrophenol                                    | TM16/PM30               | ug/l  | <1    |                      |                     | <10           | <10           | -             | <10          | <10          | <10          | <10          | <10          | <10          | -            | <10          | <10          |
| Pentachlorophenol                                | TM16/PM30               | ug/l  | <1    |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| Phenol                                           | TM16/PM30               | ug/l  |       |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| PAHs                                             |                         |       |       |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 2-Chloronaphthalene #                            | TM16/PM30               | ug/l  | <1    |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| 2-Methylnaphthalene #                            | TM16/PM30               | ug/l  |       |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| Phthalates                                       |                         |       |       |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| Bis(2-ethylhexyl) phthalate                      | TM16/PM30               | ug/l  | <1    |                      |                     | <5            | <5            | -             | <5           | <5           | <5           | <5           | <5           | <5           | -            | <5           | <5           |
| Butylbenzyl phthalate                            | TM16/PM30               | ug/l  | <1.5  |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| Di-n-butyl phthalate #                           | TM16/PM30               | ug/l  | <1    |                      |                     | <1.5          | <1.5          | -             | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | <1.5         | -            | <1.5         | <1.5         |
| Di-n-Octyl phthalate                             | TM16/PM30               | ug/l  | <1    |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| Diethyl phthalate #                              | TM16/PM30               | ug/l  | <1    |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| Dimethyl phthalate                               | TM16/PM30               | ug/l  |       |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |
| Other SVOCs                                      |                         |       |       |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,2-Dichlorobenzene #                            | TM16/PM30               | ug/l  | <1    | 7200                 | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | <1           | -            | <1           | <1           |

| Risks to Human Heatlh<br>(Commerical/Industrial) |           |       |      | Sample ID            |                     | SW01          |      | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|--------------------------------------------------|-----------|-------|------|----------------------|---------------------|---------------|------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                  |           |       |      | Depth                |                     |               |      |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                                  |           |       |      | Sample Type          |                     | Surface Water |      | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                                  |           |       |      | Sampled Date         |                     | 09/10/2024    |      | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                                  |           |       |      | Sample Received Date |                     | 10/10/2024    |      | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                             | Method    | Units | LOD  | GAC HH               | No. GAC Exceedances |               |      |               |               |              |              |              |              |              |              |              |              |              |
| 1,2,4-Trichlorobenzene <sup>#</sup>              | TM16/PM30 | ug/l  | <1   | 220000               | 0                   | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 1,3-Dichlorobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   | 2800                 | 0                   | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 1,4-Dichlorobenzene <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   | 460000               | 0                   | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 2-Nitroaniline                                   | TM16/PM30 | ug/l  | <0.5 |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 2,4-Dinitrotoluene <sup>#</sup>                  | TM16/PM30 | ug/l  | <1   |                      |                     | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| 2,6-Dinitrotoluene                               | TM16/PM30 | ug/l  | <1   |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 3-Nitroaniline                                   | TM16/PM30 | ug/l  | <1   |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 4-Bromophenylphenylether <sup>#</sup>            | TM16/PM30 | ug/l  | <1   |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 4-Chloroaniline                                  | TM16/PM30 | ug/l  | <1   |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 4-Chlorophenylphenylether <sup>#</sup>           | TM16/PM30 | ug/l  | <0.5 |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 4-Nitroaniline                                   | TM16/PM30 | ug/l  | <0.5 |                      |                     | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Azobenzene <sup>#</sup>                          | TM16/PM30 | ug/l  | <0.5 |                      |                     | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Bis(2-chloroethoxy)methane <sup>#</sup>          | TM16/PM30 | ug/l  | <1   |                      |                     | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Bis(2-chloroethyl)ether <sup>#</sup>             | TM16/PM30 | ug/l  | <0.5 |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Carbazole <sup>#</sup>                           | TM16/PM30 | ug/l  | <0.5 |                      |                     | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Dibenzofuran <sup>#</sup>                        | TM16/PM30 | ug/l  | <1   |                      |                     | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Hexachlorobenzene <sup>#</sup>                   | TM16/PM30 | ug/l  | <1   | 1400                 | 0                   | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Hexachlorobutadiene <sup>#</sup>                 | TM16/PM30 | ug/l  | <1   |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Hexachlorocyclopentadiene                        | TM16/PM30 | ug/l  | <1   |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Hexachloroethane <sup>#</sup>                    | TM16/PM30 | ug/l  | <0.5 | 740                  | 0                   | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Isophorone <sup>#</sup>                          | TM16/PM30 | ug/l  | <0.5 |                      |                     | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| N-nitrosodi-n-propylamine <sup>#</sup>           | TM16/PM30 | ug/l  | <1   |                      |                     | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Nitrobenzene <sup>#</sup>                        | TM16/PM30 | ug/l  | <0   |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Surrogate Recovery 2-Fluorobiphenyl              | TM16/PM30 | %     | <0   |                      |                     | 108           | 107  | -             | 103           | 104          | 80           | 108          | 111          | -            | -            | 84           | -            | 98           |
| Surrogate Recovery p-Terphenyl-d14               | TM16/PM30 | %     |      |                      |                     | 112           | 112  | -             | 112           | 109          | 85           | 115          | 119          | -            | -            | 84           | -            | 101          |
| VOC MS                                           |           |       |      |                      |                     |               |      |               |               |              |              |              |              |              |              |              |              |              |
| Dichlorodifluoromethane                          | TM15/PM10 | ug/l  | <2   | 22000                | 0                   | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Methyl Tertiary Butyl Ether <sup>#</sup>         | TM15/PM10 | ug/l  | <0.1 | 290000               | 0                   | <0.1          | <0.1 | -             | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| Chloromethane <sup>#</sup>                       | TM15/PM10 | ug/l  | <3   | 150000               | 0                   | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Vinyl Chloride <sup>#</sup>                      | TM15/PM10 | ug/l  | <0.1 | 49000                | 0                   | <0.1          | <0.1 | -             | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| Bromomethane                                     | TM15/PM10 | ug/l  | <1   | 260000               | 0                   | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Chloroethane <sup>#</sup>                        | TM15/PM10 | ug/l  | <3   | 16000                | 0                   | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Trichlorofluoromethane <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |                      |                     | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,1-Dichloroethene (1,1 DCE) <sup>#</sup>        | TM15/PM10 | ug/l  | <3   | 3100                 | 0                   | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Dichloromethane (DCM) <sup>#</sup>               | TM15/PM10 | ug/l  | <3   |                      |                     | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| trans-1-2-Dichloroethene <sup>#</sup>            | TM15/PM10 | ug/l  | <3   | 7200                 | 0                   | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,1-Dichloroethane <sup>#</sup>                  | TM15/PM10 | ug/l  | <3   | 2200                 | 0                   | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| cis-1-2-Dichloroethene <sup>#</sup>              | TM15/PM10 | ug/l  | <3   |                      |                     | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 2,2-Dichloropropane                              | TM15/PM10 | ug/l  | <1   |                      |                     | <1            | <1   | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Bromochloromethane <sup>#</sup>                  | TM15/PM10 | ug/l  | <2   | 220000               | 0                   | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Chloroform <sup>#</sup>                          | TM15/PM10 | ug/l  | <2   | 15000                | 0                   | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,1,1-Trichloroethane <sup>#</sup>               | TM15/PM10 | ug/l  | <2   | 2600                 | 0                   | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,1-Dichloropropene <sup>#</sup>                 | TM15/PM10 | ug/l  | <3   | 2200                 | 0                   | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Carbon tetrachloride <sup>#</sup>                | TM15/PM10 | ug/l  | <2   | 2800                 | 0                   | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| 1,2-Dichloroethane <sup>#</sup>                  | TM15/PM10 | ug/l  | <2   |                      |                     | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Benzene <sup>#</sup>                             | TM15/PM10 | ug/l  | <0.5 | 460000               | 0                   | <0.5          | <0.5 | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| Trichloroethene (TCE) <sup>#</sup>               | TM15/PM10 | ug/l  | <3   |                      |                     | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| 1,2-Dichloropropane <sup>#</sup>                 | TM15/PM10 | ug/l  | <2   | 640000               | 0                   | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Dibromomethane <sup>#</sup>                      | TM15/PM10 | ug/l  | <3   |                      |                     | <3            | <3   | -             | <3            | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |
| Bromodichloromethane <sup>#</sup>                | TM15/PM10 | ug/l  | <2   |                      |                     | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| cis-1-3-Dichloropropene                          | TM15/PM10 | ug/l  | <2   | 20000                | 0                   | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |
| Toluene <sup>#</sup>                             | TM15/PM10 | ug/l  | <5   | 20000                | 0                   | <5            | <5   | -             | <5            | <5           | <5           | <5           | <5           | <5           | -            | <5           | -            | <5           |
| trans-1-3-Dichloropropene                        | TM15/PM10 | ug/l  | <2   |                      |                     | <2            | <2   | -             | <2            | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |



| Risks to Human Heatlh<br>(Commerical/Industrial) |             |       |       | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |  |
|--------------------------------------------------|-------------|-------|-------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
|                                                  |             |       |       | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |  |
|                                                  |             |       |       | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |  |
|                                                  |             |       |       | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |  |
|                                                  |             |       |       | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |  |
| Test                                             | Method      | Units | LOD   | GAC HH               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |  |
| 1,1,2-Trichloroethane <sup>#</sup>               | TM15/PM10   | ug/l  | <2    | 1600                 | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| Tetrachloroethene (PCE) <sup>#</sup>             | TM15/PM10   | ug/l  | <3    | 400000               | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 1,3-Dichloropropane <sup>#</sup>                 | TM15/PM10   | ug/l  | <2    |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| Dibromochloromethane <sup>#</sup>                | TM15/PM10   | ug/l  | <2    | 770                  | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| 1,2-Dibromoethane <sup>#</sup>                   | TM15/PM10   | ug/l  | <2    | 15000                | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| Chlorobenzene <sup>#</sup>                       | TM15/PM10   | ug/l  | <2    | 1000000              | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| 1,1,1,2-Tetrachloroethane <sup>#</sup>           | TM15/PM10   | ug/l  | <2    | 85000                | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| Ethylbenzene <sup>#</sup>                        | TM15/PM10   | ug/l  | <1    | 1400                 | 0                   | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |  |
| m/p-Xylene <sup>#</sup>                          | TM15/PM10   | ug/l  | <2    | 13000                | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| o-Xylene <sup>#</sup>                            | TM15/PM10   | ug/l  | <1    |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |  |
| Styrene                                          | TM15/PM10   | ug/l  | <2    |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| Bromoform <sup>#</sup>                           | TM15/PM10   | ug/l  | <2    |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| Isopropylbenzene <sup>#</sup>                    | TM15/PM10   | ug/l  | <3    |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 1,1,2,2-Tetrachloroethane                        | TM15/PM10   | ug/l  | <4    |                      |                     | <4            | <4            | -             | <4           | <4           | <4           | <4           | <4           | -            | <4           | -            | <4           |  |
| Bromobenzene <sup>#</sup>                        | TM15/PM10   | ug/l  | <2    | 960000               | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| 1,2,3-Trichloropropane <sup>#</sup>              | TM15/PM10   | ug/l  | <3    |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| Propylbenzene <sup>#</sup>                       | TM15/PM10   | ug/l  | <3    | 86000                | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 2-Chlorotoluene <sup>#</sup>                     | TM15/PM10   | ug/l  | <3    | 940000               | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 1,3,5-Trimethylbenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <3    | 7800000              | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 4-Chlorotoluene <sup>#</sup>                     | TM15/PM10   | ug/l  | <3    | 23000                | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| tert-Butylbenzene <sup>#</sup>                   | TM15/PM10   | ug/l  | <3    |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 1,2,4-Trimethylbenzene <sup>#</sup>              | TM15/PM10   | ug/l  | <3    | 1100000              | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| sec-Butylbenzene <sup>#</sup>                    | TM15/PM10   | ug/l  | <3    | 240000               | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 4-Isopropyltoluene <sup>#</sup>                  | TM15/PM10   | ug/l  | <3    |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 1,3-Dichlorobenzene <sup>#</sup>                 | TM15/PM10   | ug/l  | <3    | 810000               | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 1,4-Dichlorobenzene <sup>#</sup>                 | TM15/PM10   | ug/l  | <3    |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| n-Butylbenzene <sup>#</sup>                      | TM15/PM10   | ug/l  | <3    | 6100                 | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 1,2-Dichlorobenzene <sup>#</sup>                 | TM15/PM10   | ug/l  | <3    | 21000000             | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| 1,2-Dibromo-3-chloropropane                      | TM15/PM10   | ug/l  | <2    | 16000                | 0                   | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| 1,2,4-Trichlorobenzene                           | TM15/PM10   | ug/l  | <3    |                      |                     | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| Hexachlorobutadiene                              | TM15/PM10   | ug/l  | <3    | 310                  | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| Naphthalene                                      | TM15/PM10   | ug/l  | <2    |                      |                     | <2            | <2            | -             | <2           | <2           | <2           | <2           | <2           | -            | <2           | -            | <2           |  |
| 1,2,3-Trichlorobenzene                           | TM15/PM10   | ug/l  | <3    | 1200                 | 0                   | <3            | <3            | -             | <3           | <3           | <3           | <3           | <3           | -            | <3           | -            | <3           |  |
| Surrogate Recovery Toluene D8                    | TM15/PM10   | %     | <0    |                      |                     | 97            | 91            | -             | 94           | 92           | 98           | 95           | 95           | -            | 76           | -            | 83           |  |
| Surrogate Recovery 4-Bromofluorobenzene          | TM15/PM10   | %     | <0    |                      |                     | 102           | 98            | -             | 98           | 96           | 101          | 100          | 101          | -            | 84           | -            | 94           |  |
|                                                  |             |       |       |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |  |
| SVOC TICs                                        | TM16/PM30   | None  |       |                      |                     | ND            | ND            | -             | ND           | ND           | ND           | ND           | ND           | -            | ND           | -            | ND           |  |
| PFAAS                                            |             |       |       |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |  |
| PFBA                                             | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.25         | <0.25         | -             | <0.25        | <0.25        | <0.25        | 0.31         | 0.52         | -            | <0.25        | -            | 0.28         |  |
| PFPeA                                            | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | 0.06         | -            | 0.37         |  |
| PFHxA                                            | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.06         | <0.05        | -            | <0.05        | -            | 0.15         |  |
| PFHpA                                            | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |  |
| PFOA                                             | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.1          | <0.05        | -            | <0.05        | -            | <0.05        |  |
| PFNA                                             | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |  |
| PFDA                                             | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |  |
| PFUnA                                            | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |  |
| PFDoA                                            | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |  |
| PFTTrDA                                          | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |  |
| PFTeDA                                           | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |  |
| PFHxDA                                           | TM135/PM121 | ug/l  | <0.1  |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |  |
| PFODA                                            | TM135/PM121 | ug/l  | <0.1  |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | 0.1          |  |
| PFBS                                             | TM135/PM121 | ug/l  | <0.05 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | 0.06         | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |  |

| Risks to Human Heatlh<br>(Commerical/Industrial) |             |       |          | Sample ID            |                     | SW01          |       | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|--------------------------------------------------|-------------|-------|----------|----------------------|---------------------|---------------|-------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                  |             |       |          | Depth                |                     |               |       |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                                  |             |       |          | Sample Type          |                     | Surface Water |       | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                                  |             |       |          | Sampled Date         |                     | 09/10/2024    |       | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                                  |             |       |          | Sample Received Date |                     | 10/10/2024    |       | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                             | Method      | Units | LOD      | GAC HH               | No. GAC Exceedances |               |       |               |               |              |              |              |              |              |              |              |              |              |
| PFPeS                                            | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHxS                                            | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | 0.12         | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHpS                                            | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFOS                                             | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | 3.23         | <0.05        | <0.05        | -            | <0.05        | -            | 0.1          |
| PFNS                                             | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDS                                             | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFUnDS                                           | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDoDS                                           | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFTrDS                                           | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| HFPO-DA (Gen X)                                  | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| HFPO-TA                                          | TM135/PM121 | ug/l  | <1       |                      |                     | <1            | <1    | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| DONA                                             | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFMOPrA                                          | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| NFDHA                                            | TM135/PM121 | ug/l  | <0.1     |                      |                     | <0.1          | <0.1  | -             | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| PFMOBA                                           | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFECHS                                           | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | 0.34         | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 3:3 FTCA                                         | TM135/PM121 | ug/l  | <0.1     |                      |                     | <0.1          | <0.1  | -             | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| 5:3 FTCA                                         | TM135/PM121 | ug/l  | <0.5     |                      |                     | <0.5          | <0.5  | -             | <0.5          | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| 7:3 FTCA                                         | TM135/PM121 | ug/l  | <0.1     |                      |                     | <0.1          | <0.1  | -             | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | 0.5          |
| PFEESA                                           | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 9CI-PF3ONS                                       | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 11CI-PF3OUdS                                     | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 4:2 FTS                                          | TM135/PM121 | ug/l  | <0.2     |                      |                     | <0.2          | <0.2  | -             | <0.2          | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| 6:2 FTS                                          | TM135/PM121 | ug/l  | <0.2     |                      |                     | <0.2          | <0.2  | -             | <0.2          | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| 8:2 FTS                                          | TM135/PM121 | ug/l  | <0.2     |                      |                     | <0.2          | <0.2  | -             | <0.2          | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| FBSA                                             | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| FHxSA                                            | TM135/PM121 | ug/l  | <0.05    |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| FOSA                                             | TM135/PM121 | ug/l  | <1       |                      |                     | <1            | <1    | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-MeFOSA                                         | TM135/PM121 | ug/l  | <1       |                      |                     | <1            | <1    | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-EtFOSA                                         | TM135/PM121 | ug/l  | <1       |                      |                     | <1            | <1    | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Me-FOSE                                          | TM135/PM121 | ug/l  | <0.1     |                      |                     | <0.1          | <0.1  | -             | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| Et-FOSE                                          | TM135/PM121 | ug/l  | <0.1     |                      |                     | <0.1          | <0.1  | -             | <0.1          | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| N-MeFOSAA                                        | TM135/PM121 | ug/l  | <1       |                      |                     | <1            | <1    | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-EtFOSAA                                        | TM135/PM121 | ug/l  | <1       |                      |                     | <1            | <1    | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 8:2diPAP                                         | TM135/PM121 | ug/l  | <0.2     |                      |                     | 0.4           | 0.2   | -             | <0.2          | 0.2          | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| FOUEA                                            | TM135/PM121 | ug/l  | <1       |                      |                     | <1            | <1    | -             | <1            | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| PFBA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.001   |                      |                     | <0.25         | <0.25 | -             | <0.25         | <0.25        | <0.25        | 0.31         | 0.52         | <0.25        | -            | <0.25        | -            | 0.28         |
| PFPeA <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | 0.06         | -            | 0.37         |
| PFHxA <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | 0.06         | <0.05        | <0.05        | -            | <0.05        | -            | 0.15         |
| PFHpA <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFOA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.00065 |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | 0.1          | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFNA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.001   |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDA <sup>#</sup>                                | TM135/PM122 | ug/l  | <0.001   |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFUnA <sup>#</sup>                               | TM135/PM122 | ug/l  | <0.001   |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDoA                                            | TM135/PM122 | ug/l  | <0.001   |                      |                     | <0.05         | <0.05 | -             | <0.05         | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |

| Risks to Human Heatlh<br>(Commerical/Industrial) |                |          |          | Sample ID            |                     | SW01          | SW02          | SW03          | BH2513       | BH2527       | BH2520       | BH2517       | BH2518       | BH2514       | BH2516       | BH2522       | BH2526       |
|--------------------------------------------------|----------------|----------|----------|----------------------|---------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                  |                |          |          | Depth                |                     |               |               |               | 1.77         | 1.80         | 3.10         | 4.20         | 1.50         | 3.60         | 2.90         | 3.40         | 2.50         |
|                                                  |                |          |          | Sample Type          |                     | Surface Water | Surface Water | Surface Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water | Ground Water |
|                                                  |                |          |          | Sampled Date         |                     | 09/10/2024    | 09/10/2024    | 09/10/2024    | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 09/10/2024   | 10/10/2024   | 10/10/2024   |
|                                                  |                |          |          | Sample Received Date |                     | 10/10/2024    | 10/10/2024    | 10/10/2024    | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 10/10/2024   | 11/10/2024   | 11/10/2024   |
| Test                                             | Method         | Units    | LOD      | GAC HH               | No. GAC Exceedances |               |               |               |              |              |              |              |              |              |              |              |              |
| PFTTrDA                                          | TM135/PM122    | ug/l     | <0.006   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFTeDA                                           | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHxDA                                           | TM135/PM122    | ug/l     | <0.01    |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| PFODA                                            | TM135/PM122    | ug/l     | <0.025   |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | 0.1          |
| PFBS <sup>#</sup>                                | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | 0.06         | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFPeS <sup>#</sup>                               | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHxS <sup>#</sup>                               | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.12         | <0.05        | -            | <0.05        | -            | <0.05        |
| PFHpS <sup>#</sup>                               | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFOS <sup>#</sup>                                | TM135/PM122    | ug/l     | <0.00065 |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 3.23         | <0.05        | -            | <0.05        | -            | 0.1          |
| PFNS                                             | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDS                                             | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFUnDS                                           | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFDoDS                                           | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFTTrDS                                          | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| HFPO-DA (Gen X)                                  | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| HFPO-TA                                          | TM135/PM122    | ug/l     | <0.02    |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| DONA <sup>#</sup>                                | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFMOPrA                                          | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| NFDHA                                            | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| PFMOBA                                           | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| PFECHS                                           | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | 0.34         | <0.05        | -            | <0.05        | -            | <0.05        |
| 3:3 FTCA                                         | TM135/PM122    | ug/l     | <0.02    |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| 5:3 FTCA                                         | TM135/PM122    | ug/l     | <0.01    |                      |                     | <0.5          | <0.5          | -             | <0.5         | <0.5         | <0.5         | <0.5         | <0.5         | -            | <0.5         | -            | <0.5         |
| 7:3 FTCA                                         | TM135/PM122    | ug/l     | <0.02    |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | 0.5          |
| PFEESA                                           | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 9CI-PF3ONS <sup>#</sup>                          | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 11CI-PF3OUdS                                     | TM135/PM122    | ug/l     | <0.001   |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| 4:2 FTS                                          | TM135/PM122    | ug/l     | <0.005   |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| 6:2 FTS                                          | TM135/PM122    | ug/l     | <0.005   |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| 8:2 FTS                                          | TM135/PM122    | ug/l     | <0.005   |                      |                     | <0.2          | <0.2          | -             | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| FBSA                                             | TM135/PM122    | ug/l     | <0.02    |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| FHxSA                                            | TM135/PM122    | ug/l     | <0.02    |                      |                     | <0.05         | <0.05         | -             | <0.05        | <0.05        | <0.05        | <0.05        | <0.05        | -            | <0.05        | -            | <0.05        |
| FOSA                                             | TM135/PM122    | ug/l     | <0.005   |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-MeFOSA                                         | TM135/PM122    | ug/l     | <0.005   |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-EtFOSA                                         | TM135/PM122    | ug/l     | <0.005   |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| Me-FOSE                                          | TM135/PM122    | ug/l     | <0.02    |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| Et-FOSE                                          | TM135/PM122    | ug/l     | <0.02    |                      |                     | <0.1          | <0.1          | -             | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | -            | <0.1         | -            | <0.1         |
| N-MeFOSAA                                        | TM135/PM122    | ug/l     | <0.005   |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| N-EtFOSAA                                        | TM135/PM122    | ug/l     | <0.005   |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
| 8:2diPAP                                         | TM135/PM122    | ug/l     | <0.005   |                      |                     | 0.4           | 0.2           | -             | <0.2         | 0.2          | <0.2         | <0.2         | <0.2         | -            | <0.2         | -            | <0.2         |
| FOUEA                                            | TM135/PM122    | ug/l     | <0.005   |                      |                     | <1            | <1            | -             | <1           | <1           | <1           | <1           | <1           | -            | <1           | -            | <1           |
|                                                  |                |          |          |                      |                     |               |               |               |              |              |              |              |              |              |              |              |              |
| 1,4-Dioxane*                                     | Subcontracted/ | ug/l     | <0.07    |                      |                     | <8.40         | <7.00         | NA            | <7.00        | <7.70        | <7.70        | <35.00       | <7.00        | NA           | <8.40        |              |              |
| BOD (Settled) <sup>#</sup>                       | TM58/PM0       | mg/l     | <1       |                      |                     | 3             | 3             | <2            | <6           | 16           | <3           | 11           | <3           | 15           | <2           | 27           | 26           |
| COD (Settled) <sup>#</sup>                       | TM57/PM0       | mg/l     | <7       |                      |                     | 18            | 19            | 24            | 99           | 63           | 37           | 160          | 53           | 63           | 44           | 73           | 129          |
| Dissolved Organic Carbon <sup>#</sup>            | TM60/PM0       | mg/l     | <2       |                      |                     | 3             | <2            | <2            | 27           | 21           | 8            | 53           | 15           | 19           | 10           | 14           | 26           |
| Free Ammonia as NH3                              | TM176/PM0      | mg/l     | <0.007   |                      |                     | <0.007        | <0.007        | <0.007        | <0.007       | <0.007       | <0.007       | 0.186        | 0.009        | 0.032        | 0.01         | 0.073        | 0.021        |
| pH <sup>#</sup>                                  | TM73/PM0       | pH units | <0.01    |                      |                     | 8.22          | 8.25          | 8.22          | 7.72         | 7.66         | 7.99         | 7.98         | 7.98         | 7.77         | 7.78         | 7.77         | 7.58         |



## Appendix 6 Laboratory Certificates



Element Materials Technology

P: +44 (0) 1244 833780

Unit 3 Deeside Point

F: +44 (0) 1244 833781

Zone 3

Deeside Industrial Park

W: [www.element.com](http://www.element.com)

Deeside

CH5 2UA

Ramboll  
240 Blackfriars Road  
London  
United Kingdom  
SE1 8NW



4225



**Attention :** Eleanor Brown  
**Date :** 18th March, 2024  
**Your reference :** 1620016166-002  
**Our reference :** Test Report 24/3334 Batch 1 24/3398 Batch 1  
**Location :** Manor Farm  
**Date samples received :**  
**Status :** Final Report  
**Issue :** 202403181413

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 47.06 kg of CO2

Scope 1&2&3 emissions - 111.215 kg of CO2

**Authorised By:**

**Paul Boden BSc**  
Senior Project Manager

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## Element Materials Technology

Client Name: Ramboll

Reference: 1620016166-002

Location: Manor Farm

Contact: Eleanor Brown

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Job No.                                      | 24/3334                 | 24/3334                 | 24/3334                 | 24/3334                 | 24/3334                 | 24/3398                 | 24/3398                 | 24/3398                 | 24/3398                 | 24/3398                 | Please see attached notes for all abbreviations and acronyms |       |            |
|--------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------------------------------------------|-------|------------|
| EMT Sample No.                                   | 1-14                    | 15-25,62                | 26-35,63-64             | 36-47                   | 48-61                   | 1-14                    | 15-28                   | 29-42                   | 43-56                   | 57-70                   |                                                              |       |            |
| Sample ID                                        | BH2518                  | SW01                    | SW02                    | SW03                    | WS07                    | WS06                    | BH2526                  | BH2527                  | WS13                    | WS18                    |                                                              |       |            |
| Depth                                            | 0.85                    |                         |                         |                         | 1.21                    | 2.99                    | 3.73                    | 2.70                    | 4.00                    | 3.96                    |                                                              |       |            |
| COC No / misc                                    |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                                                              |       |            |
| Containers                                       | V H H N N P B O D P F G | V H H N N P B O D G P F | H H N N P B O D P F G V | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G |                                                              |       |            |
| Sample Date                                      | 26/02/2024              | 26/02/2024              | 26/02/2024              | 26/02/2024              | 26/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              |                                                              |       |            |
| Sample Type                                      | Ground Water            | Surface Water           | Surface Water           | Surface Water           | Ground Water            | Ground Water            | Ground Water            | Ground Water            | Ground Water            | Ground Water            |                                                              |       |            |
| Batch Number                                     | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       |                                                              |       |            |
| Date of Receipt                                  | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | LOD/LOR                                                      | Units | Method No. |
| Dissolved Arsenic <sup>#</sup>                   | <2.5                    | <2.5                    | <2.5                    | <2.5                    | <2.5                    | <2.5                    | 12.7                    | 5.3                     | <2.5                    | <2.5                    | <2.5                                                         | ug/l  | TM30/PM14  |
| Dissolved Beryllium                              | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                                                         | ug/l  | TM30/PM14  |
| Dissolved Boron                                  | 57                      | 56                      | 48                      | 41                      | 392                     | 191                     | 100                     | 208                     | 454                     | 362                     | <12                                                          | ug/l  | TM30/PM14  |
| Dissolved Cadmium <sup>#</sup>                   | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | 0.6                     | <0.5                                                         | ug/l  | TM30/PM14  |
| Total Dissolved Chromium <sup>#</sup>            | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                                                         | ug/l  | TM30/PM14  |
| Dissolved Copper <sup>#</sup>                    | <7                      | <7                      | <7                      | <7                      | <7                      | <7                      | <7                      | <7                      | <7                      | 58                      | <7                                                           | ug/l  | TM30/PM14  |
| Total Dissolved Iron <sup>#</sup>                | <20                     | 34                      | 30                      | 28                      | 9599                    | 21731 <sup>AC</sup>     | 5125                    | 4246                    | 672                     | <20                     | <20                                                          | ug/l  | TM30/PM14  |
| Dissolved Lead <sup>#</sup>                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | 15                      | <5                                                           | ug/l  | TM30/PM14  |
| Dissolved Mercury <sup>#</sup>                   | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                                                           | ug/l  | TM30/PM14  |
| Dissolved Nickel <sup>#</sup>                    | <2                      | <2                      | <2                      | <2                      | <2                      | <2                      | 4                       | 5                       | <2                      | 31                      | <2                                                           | ug/l  | TM30/PM14  |
| Dissolved Selenium <sup>#</sup>                  | <3                      | <3                      | <3                      | <3                      | <3                      | <3                      | <3                      | <3                      | <3                      | <3                      | <3                                                           | ug/l  | TM30/PM14  |
| Dissolved Vanadium <sup>#</sup>                  | 7.2                     | <1.5                    | <1.5                    | <1.5                    | 2.1                     | 2.6                     | 1.9                     | <1.5                    | 2.0                     | 1.5                     | <1.5                                                         | ug/l  | TM30/PM14  |
| Dissolved Zinc <sup>#</sup>                      | <3                      | 8                       | 8                       | 7                       | 8                       | 8                       | 5                       | <3                      | <3                      | 1111                    | <3                                                           | ug/l  | TM30/PM14  |
| Total Hardness Dissolved (as CaCO <sub>3</sub> ) | 199                     | 278                     | 281                     | 284                     | 850                     | 831                     | 410                     | 735                     | 795                     | 1102                    | <1                                                           | mg/l  | TM30/PM14  |
| PAH MS                                           |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                                                              |       |            |
| Naphthalene <sup>#</sup>                         | <0.1                    | <0.1                    | <0.1                    | <0.1                    | <0.1                    | <0.1                    | <0.1                    | <0.1                    | <2.0 <sup>AF</sup>      | <0.1                    | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene <sup>#</sup>                      | <0.005                  | <0.005                  | <0.005                  | <0.005                  | <0.005                  | 0.013                   | <0.005                  | <0.005                  | 0.253 <sup>AF</sup>     | <0.005                  | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene <sup>#</sup>                        | <0.005                  | <0.005                  | <0.005                  | <0.005                  | 0.888                   | 0.706                   | <0.005                  | <0.005                  | 3.677 <sup>AF</sup>     | <0.005                  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene <sup>#</sup>                            | <0.005                  | <0.005                  | <0.005                  | <0.005                  | 0.528                   | 0.680                   | <0.005                  | <0.005                  | 0.738 <sup>AF</sup>     | <0.005                  | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene <sup>#</sup>                        | <0.005                  | <0.005                  | <0.005                  | <0.005                  | 0.044                   | 0.529                   | 0.007                   | <0.005                  | 1.024 <sup>AF</sup>     | <0.005                  | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene <sup>#</sup>                          | 0.010                   | <0.005                  | <0.005                  | <0.005                  | 0.060                   | 0.167                   | 0.010                   | 0.007                   | 1.602 <sup>AF</sup>     | 0.009                   | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene <sup>#</sup>                        | 0.012                   | 0.014                   | 0.018                   | 0.023                   | 0.050                   | 0.428                   | 0.018                   | 0.005                   | 28.734 <sup>AF</sup>    | 0.015                   | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene <sup>#</sup>                              | 0.013                   | 0.016                   | 0.018                   | 0.022                   | 0.038                   | 0.297                   | 0.020                   | 0.006                   | 23.981 <sup>AF</sup>    | 0.015                   | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene <sup>#</sup>                  | 0.008                   | 0.008                   | 0.011                   | 0.014                   | <0.005                  | 0.061                   | 0.013                   | <0.005                  | 8.882 <sup>AF</sup>     | 0.016                   | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene <sup>#</sup>                            | 0.008                   | 0.006                   | 0.010                   | 0.011                   | <0.005                  | 0.058                   | 0.010                   | <0.005                  | 10.284 <sup>AF</sup>    | 0.012                   | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(bk)fluoranthene <sup>#</sup>               | 0.019                   | 0.015                   | 0.019                   | 0.023                   | <0.008                  | 0.055                   | 0.020                   | <0.008                  | 11.307 <sup>AF</sup>    | 0.029                   | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene <sup>#</sup>                      | 0.010                   | 0.007                   | 0.009                   | 0.011                   | <0.005                  | 0.030                   | 0.009                   | <0.005                  | 6.851 <sup>AF</sup>     | 0.015                   | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene <sup>#</sup>                 | 0.009                   | 0.007                   | 0.008                   | 0.009                   | <0.005                  | 0.019                   | 0.008                   | <0.005                  | 4.537 <sup>AF</sup>     | 0.016                   | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene <sup>#</sup>               | <0.005                  | <0.005                  | <0.005                  | <0.005                  | <0.005                  | 0.007                   | <0.005                  | <0.005                  | 0.887 <sup>AF</sup>     | 0.005                   | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene <sup>#</sup>                  | 0.010                   | 0.007                   | 0.008                   | 0.009                   | <0.005                  | 0.017                   | 0.007                   | <0.005                  | 3.882 <sup>AF</sup>     | 0.012                   | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total <sup>#</sup>                        | <0.173                  | <0.173                  | <0.173                  | <0.173                  | 1.608                   | 3.067                   | <0.173                  | <0.173                  | 106.639 <sup>AF</sup>   | <0.173                  | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                             | 0.014                   | 0.011                   | 0.014                   | 0.017                   | <0.008                  | 0.040                   | 0.014                   | <0.008                  | 8.141 <sup>AF</sup>     | 0.021                   | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                             | <0.008                  | <0.008                  | <0.008                  | <0.008                  | <0.008                  | 0.015                   | <0.008                  | <0.008                  | 3.166 <sup>AF</sup>     | 0.008                   | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery                         | 91                      | 89                      | 91                      | 85                      | 92                      | 78                      | 78                      | 86                      | 98 <sup>AF</sup>        | 85                      | <0                                                           | %     | TM4/PM30   |
| VOC TICs                                         | ND                      | ND                      | ND                      | ND                      | -                       | -                       | -                       | -                       | -                       | -                       |                                                              | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether <sup>#</sup>         | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM15/PM10  |
| Benzene <sup>#</sup>                             | <0.5                    | <0.5                    | <0.5                    | -                       | -                       | -                       | -                       | -                       | -                       | -                       | <0.5                                                         | ug/l  | TM15/PM10  |
| Toluene <sup>#</sup>                             | <5                      | <5                      | <5                      | -                       | -                       | -                       | -                       | -                       | -                       | -                       | <5                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene <sup>#</sup>                        | <1                      | <1                      | <1                      | -                       | -                       | -                       | -                       | -                       | -                       | -                       | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene <sup>#</sup>                          | <2                      | <2                      | <2                      | -                       | -                       | -                       | -                       | -                       | -                       | -                       | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene <sup>#</sup>                            | <1                      | <1                      | <1                      | -                       | -                       | -                       | -                       | -                       | -                       | -                       | <1                                                           | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8                    | 102                     | 103                     | 104                     | -                       | -                       | -                       | -                       | -                       | -                       | -                       | <0                                                           | %     | TM15/PM10  |

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## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Job No.                             | 24/3334            | 24/3334            | 24/3334            | 24/3334             | 24/3334            | 24/3398            | 24/3398            | 24/3398            | 24/3398            | 24/3398            | Please see attached notes for all abbreviations and acronyms |       |            |  |
|-----------------------------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------------------------------------------|-------|------------|--|
| EMT Sample No.                          | 1-14               | 15-25,62           | 26-35,63-64        | 36-47               | 48-61              | 1-14               | 15-28              | 29-42              | 43-56              | 57-70              |                                                              |       |            |  |
| Sample ID                               | BH2518             | SW01               | SW02               | SW03                | WS07               | WS06               | BH2526             | BH2527             | WS13               | WS18               |                                                              |       |            |  |
| Depth                                   | 0.85               |                    |                    |                     | 1.21               | 2.99               | 3.73               | 2.70               | 4.00               | 3.96               |                                                              |       |            |  |
| COC No / misc                           |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
| Containers                              | V H H N P BOD PF G | V H H N P BOD G PF | H H N P BOD PF G V | V H H N P BOD PF G  | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G |                                                              |       |            |  |
| Sample Date                             | 26/02/2024         | 26/02/2024         | 26/02/2024         | 26/02/2024          | 26/02/2024         | 27/02/2024         | 27/02/2024         | 27/02/2024         | 27/02/2024         | 27/02/2024         |                                                              |       |            |  |
| Sample Type                             | Ground Water       | Surface Water      | Surface Water      | Surface Water       | Ground Water       | Ground Water       | Ground Water       | Ground Water       | Ground Water       | Ground Water       |                                                              |       |            |  |
| Batch Number                            | 1                  | 1                  | 1                  | 1                   | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  |                                                              |       |            |  |
| Date of Receipt                         | 27/02/2024         | 27/02/2024         | 27/02/2024         | 27/02/2024          | 27/02/2024         | 28/02/2024         | 28/02/2024         | 28/02/2024         | 28/02/2024         | 28/02/2024         | LOD/LOR                                                      | Units | Method No. |  |
| Surrogate Recovery 4-Bromofluorobenzene | 103                | 101                | 102                | -                   | -                  | -                  | -                  | -                  | -                  | -                  | <0                                                           | %     | TM15/PM10  |  |
| SVOC TICs                               | ND                 | ND                 | ND                 | ND                  | -                  | -                  | -                  | -                  | -                  | -                  |                                                              | None  | TM16/PM30  |  |
| Pesticides                              |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
| Organochlorine Pesticides               |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
| Aldrin                                  | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Alpha-HCH (BHC)                         | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Beta-HCH (BHC)                          | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Delta-HCH (BHC)                         | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Dieldrin                                | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Endosulphan I                           | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Endosulphan II                          | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Endosulphan sulphate                    | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Endrin                                  | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Gamma-HCH (BHC)                         | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Heptachlor                              | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Heptachlor Epoxide                      | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| o,p'-Methoxychlor                       | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| p,p'-DDE                                | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| p,p'-DDT                                | <0.01              | <0.01              | <0.01              | <0.10 <sup>AE</sup> | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| p,p'-Methoxychlor                       | <0.01              | <0.01              | <0.01              | <0.10 <sup>AE</sup> | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| p,p'-TDE                                | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Organophosphorus Pesticides             |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
| Azinphos methyl                         | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Diazinon                                | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Dichlorvos                              | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Disulfoton                              | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Ethion                                  | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Ethyl Parathion (Parathion)             | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Fenitrothion                            | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Malathion                               | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Methyl Parathion                        | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
| Mevinphos                               | <0.01              | <0.01              | <0.01              | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  | <0.01                                                        | ug/l  | TM149/PM30 |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |
|                                         |                    |                    |                    |                     |                    |                    |                    |                    |                    |                    |                                                              |       |            |  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Job No.                               | 24/3334                 | 24/3334                 | 24/3334                 | 24/3334                 | 24/3334                 | 24/3398                 | 24/3398                 | 24/3398                 | 24/3398                 | 24/3398                 | Please see attached notes for all abbreviations and acronyms |       |               |
|-------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------------------------------------------|-------|---------------|
| EMT Sample No.                            | 1-14                    | 15-25,62                | 26-35,63-64             | 36-47                   | 48-61                   | 1-14                    | 15-28                   | 29-42                   | 43-56                   | 57-70                   |                                                              |       |               |
| Sample ID                                 | BH2518                  | SW01                    | SW02                    | SW03                    | WS07                    | WS06                    | BH2526                  | BH2527                  | WS13                    | WS18                    |                                                              |       |               |
| Depth                                     | 0.85                    |                         |                         |                         | 1.21                    | 2.99                    | 3.73                    | 2.70                    | 4.00                    | 3.96                    |                                                              |       |               |
| COC No / misc                             |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                                                              |       |               |
| Containers                                | V H H N N P B O D P F G | V H H N N P B O D G P F | H H N N P B O D P F G V | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G |                                                              |       |               |
| Sample Date                               | 26/02/2024              | 26/02/2024              | 26/02/2024              | 26/02/2024              | 26/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              |                                                              |       |               |
| Sample Type                               | Ground Water            | Surface Water           | Surface Water           | Surface Water           | Ground Water            | Ground Water            | Ground Water            | Ground Water            | Ground Water            | Ground Water            |                                                              |       |               |
| Batch Number                              | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       |                                                              |       |               |
| Date of Receipt                           | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | LOD/LOR                                                      | Units | Method No.    |
| Acid Herbicides                           |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                                                              |       |               |
| Benazolin                                 | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Bentazone                                 | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Bromoxynil                                | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Clopyralid                                | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| 4-CPA                                     | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| 2,4-D                                     | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| 2,4-DB                                    | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Dicamba                                   | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Dichloroprop                              | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Diclofop                                  | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Fenoprop                                  | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Flamprop                                  | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Flamprop-isopropyl                        | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Ioxynil                                   | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| MCPA                                      | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| MCPB                                      | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Mecoprop                                  | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Picloram                                  | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Pentachlorophenol                         | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| 2,4,5-T                                   | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| 2,3,6-TBA                                 | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| Triclopyr                                 | <0.1                    | <0.1                    | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM42/PM30     |
| MTBE #                                    | -                       | -                       | -                       | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                                                           | ug/l  | TM36/PM12     |
| Benzene #                                 | -                       | -                       | -                       | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                                                           | ug/l  | TM36/PM12     |
| Toluene #                                 | -                       | -                       | -                       | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                                                           | ug/l  | TM36/PM12     |
| Ethylbenzene #                            | -                       | -                       | -                       | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                                                           | ug/l  | TM36/PM12     |
| m/p-Xylene #                              | -                       | -                       | -                       | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                                                           | ug/l  | TM36/PM12     |
| o-Xylene #                                | -                       | -                       | -                       | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                                                           | ug/l  | TM36/PM12     |
| TPH CWG                                   |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                                                              |       |               |
| Aliphatics                                |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                                                              |       |               |
| >C5-C6 (HS_1D_AL) #                       | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                                                          | ug/l  | TM36/PM12     |
| >C6-C8 (HS_1D_AL) #                       | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                                                          | ug/l  | TM36/PM12     |
| >C8-C10 (HS_1D_AL) #                      | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                                                          | ug/l  | TM36/PM12     |
| >C10-C12 (EH_CU_1D_AL) #                  | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                                                           | ug/l  | TM5/PM16/PM30 |
| >C12-C16 (EH_CU_1D_AL) #                  | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >C16-C21 (EH_CU_1D_AL) #                  | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | 450                     | <10                     | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >C21-C35 (EH_CU_1D_AL) #                  | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | 610                     | <10                     | 660                     | <10                     | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) # | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | 610                     | <10                     | 1110                    | <10                     | <10                                                          | ug/l  | TM5/PM16/PM30 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

[illegible]

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Job No.     | 24/3334               | 24/3334               | 24/3334                 | 24/3334                 | 24/3334                 | 24/3398                 | 24/3398                 | 24/3398                 | 24/3398                 | 24/3398                 | Please see attached notes for all abbreviations and acronyms |       |             |
|-----------------|-----------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------------------------------------------|-------|-------------|
| EMT Sample No.  | 1-14                  | 15-25,62              | 26-35,63-64             | 36-47                   | 48-61                   | 1-14                    | 15-28                   | 29-42                   | 43-56                   | 57-70                   |                                                              |       |             |
| Sample ID       | BH2518                | SW01                  | SW02                    | SW03                    | WS07                    | WS06                    | BH2526                  | BH2527                  | WS13                    | WS18                    |                                                              |       |             |
| Depth           | 0.85                  |                       |                         |                         | 1.21                    | 2.99                    | 3.73                    | 2.70                    | 4.00                    | 3.96                    |                                                              |       |             |
| COC No / misc   |                       |                       |                         |                         |                         |                         |                         |                         |                         |                         |                                                              |       |             |
| Containers      | V H H N P B O D P F G | V H H N P B O D G P F | H H N N P B O D P F G V | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G |                                                              |       |             |
| Sample Date     | 26/02/2024            | 26/02/2024            | 26/02/2024              | 26/02/2024              | 26/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              |                                                              |       |             |
| Sample Type     | Ground Water          | Surface Water         | Surface Water           | Surface Water           | Ground Water            | Ground Water            | Ground Water            | Ground Water            | Ground Water            | Ground Water            |                                                              |       |             |
| Batch Number    | 1                     | 1                     | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       |                                                              |       |             |
| Date of Receipt | 27/02/2024            | 27/02/2024            | 27/02/2024              | 27/02/2024              | 27/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | 28/02/2024              | LOD/LOR                                                      | Units | Method No.  |
| PFAAS           |                       |                       |                         |                         |                         |                         |                         |                         |                         |                         |                                                              |       |             |
| PFBA            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFPaA           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxA           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHpA           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFOA            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFNA            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDA            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFUnA           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDaA           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTrDA          | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTeDA          | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxDA          | <0.1                  | <0.1                  | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM135/PM121 |
| PFODA           | <0.1                  | <0.1                  | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM135/PM121 |
| PFBS            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFPeS           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxS           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHpS           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFOS            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFNS            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDS            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFUnDS          | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDdDS          | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTrDS          | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| HFPO-DA (Gen X) | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| HFPO-TA         | <1                    | <1                    | <1                      | <1                      | -                       | -                       | -                       | -                       | -                       | -                       | <1                                                           | ug/l  | TM135/PM121 |
| DONA            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFMOPrA         | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| NFDHA           | <0.1                  | <0.1                  | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM135/PM121 |
| PFMOBA          | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| PFECHS          | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| 3:3 FTCA        | <0.1                  | <0.1                  | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM135/PM121 |
| 5:3 FTCA        | <0.5                  | <0.5                  | <0.5                    | <0.5                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.5                                                         | ug/l  | TM135/PM121 |
| 7:3 FTCA        | <0.1                  | <0.1                  | <0.1                    | <0.1                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.1                                                         | ug/l  | TM135/PM121 |
| PFEESA          | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| 9Cl-PF3ONS      | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| 11Cl-PF3OUdS    | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| 4:2 FTS         | <0.2                  | <0.2                  | <0.2                    | <0.2                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.2                                                         | ug/l  | TM135/PM121 |
| 6:2 FTS         | <0.2                  | <0.2                  | <0.2                    | <0.2                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.2                                                         | ug/l  | TM135/PM121 |
| 8:2 FTS         | <0.2                  | <0.2                  | <0.2                    | <0.2                    | -                       | -                       | -                       | -                       | -                       | -                       | <0.2                                                         | ug/l  | TM135/PM121 |
| FBSA            | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| FHxSA           | <0.05                 | <0.05                 | <0.05                   | <0.05                   | -                       | -                       | -                       | -                       | -                       | -                       | <0.05                                                        | ug/l  | TM135/PM121 |
| FOSA            | <1                    | <1                    | <1                      | <1                      | -                       | -                       | -                       | -                       | -                       | -                       | <1                                                           | ug/l  | TM135/PM121 |
| N-MeFOSA        | <1                    | <1                    | <1                      | <1                      | -                       | -                       | -                       | -                       | -                       | -                       | <1                                                           | ug/l  | TM135/PM121 |

## Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-002  
Location: Manor Farm  
Contact: Eleanor Brown

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Job No.             | 24/3334              | 24/3334            | 24/3334              | 24/3334              | 24/3334              | 24/3398              | 24/3398              | 24/3398              | 24/3398              | 24/3398              | Please see attached notes for all abbreviations and acronyms |       |             |
|-------------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------------------------------------------|-------|-------------|
| EMT Sample No.          | 1-14                 | 15-25,62           | 26-35,63-64          | 36-47                | 48-61                | 1-14                 | 15-28                | 29-42                | 43-56                | 57-70                |                                                              |       |             |
| Sample ID               | BH2518               | SW01               | SW02                 | SW03                 | WS07                 | WS06                 | BH2526               | BH2527               | WS13                 | WS18                 |                                                              |       |             |
| Depth                   | 0.85                 |                    |                      |                      | 1.21                 | 2.99                 | 3.73                 | 2.70                 | 4.00                 | 3.96                 |                                                              |       |             |
| COC No / misc           |                      |                    |                      |                      |                      |                      |                      |                      |                      |                      |                                                              |       |             |
| Containers              | V H H N P BOD PF G   | V H H N P BOD G PF | H H N N P BOD PF G V | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G |                                                              |       |             |
| Sample Date             | 26/02/2024           | 26/02/2024         | 26/02/2024           | 26/02/2024           | 26/02/2024           | 27/02/2024           | 27/02/2024           | 27/02/2024           | 27/02/2024           | 27/02/2024           |                                                              |       |             |
| Sample Type             | Ground Water         | Surface Water      | Surface Water        | Surface Water        | Ground Water         | Ground Water         | Ground Water         | Ground Water         | Ground Water         | Ground Water         |                                                              |       |             |
| Batch Number            | 1                    | 1                  | 1                    | 1                    | 1                    | 1                    | 1                    | 1                    | 1                    | 1                    | LOD/LOR                                                      | Units | Method No.  |
| Date of Receipt         | 27/02/2024           | 27/02/2024         | 27/02/2024           | 27/02/2024           | 27/02/2024           | 28/02/2024           | 28/02/2024           | 28/02/2024           | 28/02/2024           | 28/02/2024           |                                                              |       |             |
| PFAAS Continued         |                      |                    |                      |                      |                      |                      |                      |                      |                      |                      |                                                              |       |             |
| N-EtFOSA                | <1                   | <1                 | <1                   | <1                   | -                    | -                    | -                    | -                    | -                    | -                    | <1                                                           | ug/l  | TM135/PM121 |
| Me-FOSE                 | <0.1                 | <0.1               | <0.1                 | <0.1                 | -                    | -                    | -                    | -                    | -                    | -                    | <0.1                                                         | ug/l  | TM135/PM121 |
| Et-FOSE                 | <0.1                 | <0.1               | <0.1                 | <0.1                 | -                    | -                    | -                    | -                    | -                    | -                    | <0.1                                                         | ug/l  | TM135/PM121 |
| N-MeFOSAA               | <1                   | <1                 | <1                   | <1                   | -                    | -                    | -                    | -                    | -                    | -                    | <1                                                           | ug/l  | TM135/PM121 |
| N-EtFOSAA               | <1                   | <1                 | <1                   | <1                   | -                    | -                    | -                    | -                    | -                    | -                    | <1                                                           | ug/l  | TM135/PM121 |
| 8:2diPAP                | <0.2                 | <0.2               | <0.2                 | <0.2                 | -                    | -                    | -                    | -                    | -                    | -                    | <0.2                                                         | ug/l  | TM135/PM121 |
| FOUEA                   | <1                   | <1                 | <1                   | <1                   | -                    | -                    | -                    | -                    | -                    | -                    | <1                                                           | ug/l  | TM135/PM121 |
| PFBA <sup>#</sup>       | 0.002                | 0.005              | 0.006                | 0.003                | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeA <sup>#</sup>      | <0.005 <sup>AC</sup> | 0.007              | 0.006                | 0.004                | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxA <sup>#</sup>      | 0.005                | 0.007              | 0.006                | 0.004                | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpA <sup>#</sup>      | 0.003                | 0.004              | 0.003                | 0.002                | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOA <sup>#</sup>       | 0.00710              | 0.01060            | 0.00890              | 0.00680              | -                    | -                    | -                    | -                    | -                    | -                    | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNA <sup>#</sup>       | 0.001                | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDA <sup>#</sup>       | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnA <sup>#</sup>      | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDoA                   | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTTrDA                 | <0.006               | <0.006             | <0.006               | <0.006               | -                    | -                    | -                    | -                    | -                    | -                    | <0.006                                                       | ug/l  | TM135/PM122 |
| PFTeDA                  | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxDA                  | <0.01                | <0.01              | <0.01                | <0.01                | -                    | -                    | -                    | -                    | -                    | -                    | <0.01                                                        | ug/l  | TM135/PM122 |
| PFODA                   | <0.025               | <0.025             | <0.025               | <0.025               | -                    | -                    | -                    | -                    | -                    | -                    | <0.025                                                       | ug/l  | TM135/PM122 |
| PFBS <sup>#</sup>       | 0.007                | 0.006              | 0.006                | 0.005                | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeS <sup>#</sup>      | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxS <sup>#</sup>      | 0.004                | 0.006              | 0.005                | 0.004                | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpS <sup>#</sup>      | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOS <sup>#</sup>       | 0.02080              | 0.01120            | 0.01340              | 0.00930              | -                    | -                    | -                    | -                    | -                    | -                    | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNS                    | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDS                    | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnDS                  | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDoDS                  | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTTrDS                 | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X)         | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-TA                 | <0.02                | <0.02              | <0.02                | <0.02                | -                    | -                    | -                    | -                    | -                    | -                    | <0.02                                                        | ug/l  | TM135/PM122 |
| DONA <sup>#</sup>       | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOPrA                 | <0.001               | 0.001              | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| NFDHA                   | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOBA                  | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| PFECHS                  | 0.001                | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| 3:3 FTCA                | <0.02                | <0.02              | <0.02                | <0.02                | -                    | -                    | -                    | -                    | -                    | -                    | <0.02                                                        | ug/l  | TM135/PM122 |
| 5:3 FTCA                | <0.01                | <0.01              | <0.01                | <0.01                | -                    | -                    | -                    | -                    | -                    | -                    | <0.01                                                        | ug/l  | TM135/PM122 |
| 7:3 FTCA                | <0.02                | <0.02              | <0.02                | <0.02                | -                    | -                    | -                    | -                    | -                    | -                    | <0.02                                                        | ug/l  | TM135/PM122 |
| PFEESA                  | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| 9Cl-PF3ONS <sup>#</sup> | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |
| 11Cl-PF3OUdS            | <0.001               | <0.001             | <0.001               | <0.001               | -                    | -                    | -                    | -                    | -                    | -                    | <0.001                                                       | ug/l  | TM135/PM122 |



## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

[illegible]

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

|                                     |                       |                         |  |  |  |  |  |  |  |                                                              |         |       |            |
|-------------------------------------|-----------------------|-------------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|---------|-------|------------|
| EMT Job No.                         | 24/3398               | 24/3398                 |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |         |       |            |
| EMT Sample No.                      | 71-84                 | 85-98                   |  |  |  |  |  |  |  |                                                              |         |       |            |
| Sample ID                           | WS16                  | BH2520                  |  |  |  |  |  |  |  |                                                              |         |       |            |
| Depth                               | 2.88                  | 5.12                    |  |  |  |  |  |  |  |                                                              |         |       |            |
| COC No / misc                       |                       |                         |  |  |  |  |  |  |  |                                                              |         |       |            |
| Containers                          | V H H N P B O D P F G | V H H N N P B O D P F G |  |  |  |  |  |  |  |                                                              |         |       |            |
| Sample Date                         | 27/02/2024            | 27/02/2024              |  |  |  |  |  |  |  |                                                              |         |       |            |
| Sample Type                         | Ground Water          | Ground Water            |  |  |  |  |  |  |  |                                                              |         |       |            |
| Batch Number                        | 1                     | 1                       |  |  |  |  |  |  |  |                                                              |         |       |            |
| Date of Receipt                     | 28/02/2024            | 28/02/2024              |  |  |  |  |  |  |  |                                                              | LOD/LOR | Units | Method No. |
| Dissolved Arsenic #                 | 4.5                   | <2.5                    |  |  |  |  |  |  |  |                                                              | <2.5    | ug/l  | TM30/PM14  |
| Dissolved Beryllium                 | <0.5                  | <0.5                    |  |  |  |  |  |  |  |                                                              | <0.5    | ug/l  | TM30/PM14  |
| Dissolved Boron                     | 126                   | 126                     |  |  |  |  |  |  |  |                                                              | <12     | ug/l  | TM30/PM14  |
| Dissolved Cadmium #                 | <0.5                  | <0.5                    |  |  |  |  |  |  |  |                                                              | <0.5    | ug/l  | TM30/PM14  |
| Total Dissolved Chromium #          | <1.5                  | <1.5                    |  |  |  |  |  |  |  |                                                              | <1.5    | ug/l  | TM30/PM14  |
| Dissolved Copper #                  | <7                    | <7                      |  |  |  |  |  |  |  |                                                              | <7      | ug/l  | TM30/PM14  |
| Total Dissolved Iron #              | 38                    | 66                      |  |  |  |  |  |  |  |                                                              | <20     | ug/l  | TM30/PM14  |
| Dissolved Lead #                    | <5                    | <5                      |  |  |  |  |  |  |  |                                                              | <5      | ug/l  | TM30/PM14  |
| Dissolved Mercury #                 | <1                    | <1                      |  |  |  |  |  |  |  |                                                              | <1      | ug/l  | TM30/PM14  |
| Dissolved Nickel #                  | 10                    | 6                       |  |  |  |  |  |  |  |                                                              | <2      | ug/l  | TM30/PM14  |
| Dissolved Selenium #                | <3                    | <3                      |  |  |  |  |  |  |  |                                                              | <3      | ug/l  | TM30/PM14  |
| Dissolved Vanadium #                | 6.3                   | 4.5                     |  |  |  |  |  |  |  |                                                              | <1.5    | ug/l  | TM30/PM14  |
| Dissolved Zinc #                    | 7                     | 18                      |  |  |  |  |  |  |  |                                                              | <3      | ug/l  | TM30/PM14  |
| Total Hardness Dissolved (as CaCO3) | 467                   | 292                     |  |  |  |  |  |  |  |                                                              | <1      | mg/l  | TM30/PM14  |
| PAH MS                              |                       |                         |  |  |  |  |  |  |  |                                                              |         |       |            |
| Naphthalene #                       | <0.1                  | <3.0AG                  |  |  |  |  |  |  |  |                                                              | <0.1    | ug/l  | TM4/PM30   |
| Acenaphthylene #                    | 0.009                 | 0.666AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Acenaphthene #                      | <0.005                | <0.150AG                |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Fluorene #                          | <0.005                | <0.150AG                |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Phenanthrene #                      | 0.009                 | 0.821AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Anthracene #                        | 0.023                 | 0.978AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Fluoranthene #                      | 0.047                 | 4.429AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Pyrene #                            | 0.050                 | 4.773AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                | 0.041                 | 2.728AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Chrysene #                          | 0.036                 | 3.380AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Benzo(bk)fluoranthene #             | 0.094                 | 9.852AG                 |  |  |  |  |  |  |  |                                                              | <0.008  | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                    | 0.051                 | 4.888AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #               | 0.050                 | 4.657AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #             | 0.011                 | 1.065AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                | 0.044                 | 4.301AG                 |  |  |  |  |  |  |  |                                                              | <0.005  | ug/l  | TM4/PM30   |
| PAH 16 Total #                      | 0.465                 | 42.538AG                |  |  |  |  |  |  |  |                                                              | <0.173  | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                | 0.068                 | 7.093AG                 |  |  |  |  |  |  |  |                                                              | <0.008  | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                | 0.026                 | 2.759AG                 |  |  |  |  |  |  |  |                                                              | <0.008  | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery            | 85                    | 101AG                   |  |  |  |  |  |  |  |                                                              | <0      | %     | TM4/PM30   |
| VOC TICs                            | -                     | ND                      |  |  |  |  |  |  |  |                                                              |         | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #       | -                     | <0.1                    |  |  |  |  |  |  |  |                                                              | <0.1    | ug/l  | TM15/PM10  |
| Benzene #                           | -                     | <0.5                    |  |  |  |  |  |  |  |                                                              | <0.5    | ug/l  | TM15/PM10  |
| Toluene #                           | -                     | <5                      |  |  |  |  |  |  |  |                                                              | <5      | ug/l  | TM15/PM10  |
| Ethylbenzene #                      | -                     | <1                      |  |  |  |  |  |  |  |                                                              | <1      | ug/l  | TM15/PM10  |
| m/p-Xylene #                        | -                     | <2                      |  |  |  |  |  |  |  |                                                              | <2      | ug/l  | TM15/PM10  |
| o-Xylene #                          | -                     | <1                      |  |  |  |  |  |  |  |                                                              | <1      | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8       | -                     | 97                      |  |  |  |  |  |  |  |                                                              | <0      | %     | TM15/PM10  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

|                                         |                    |                                   |  |  |  |  |  |  |  |                                                              |       |            |
|-----------------------------------------|--------------------|-----------------------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| EMT Job No.                             | 24/3398            | 24/3398                           |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
| EMT Sample No.                          | 71-84              | 85-98                             |  |  |  |  |  |  |  |                                                              |       |            |
| Sample ID                               | WS16               | BH2520                            |  |  |  |  |  |  |  |                                                              |       |            |
| Depth                                   | 2.88               | 5.12                              |  |  |  |  |  |  |  |                                                              |       |            |
| COC No / misc                           |                    |                                   |  |  |  |  |  |  |  |                                                              |       |            |
| Containers                              | V H H N P BOD PF G | V H H N P BOD PF G                |  |  |  |  |  |  |  |                                                              |       |            |
| Sample Date                             | 27/02/2024         | 27/02/2024                        |  |  |  |  |  |  |  |                                                              |       |            |
| Sample Type                             | Ground Water       | Ground Water                      |  |  |  |  |  |  |  |                                                              |       |            |
| Batch Number                            | 1                  | 1                                 |  |  |  |  |  |  |  |                                                              |       |            |
| Date of Receipt                         | 28/02/2024         | 28/02/2024                        |  |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Surrogate Recovery 4-Bromofluorobenzene | -                  | 99                                |  |  |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |
| SVOC TICs                               | -                  | ND                                |  |  |  |  |  |  |  |                                                              | None  | TM16/PM30  |
| Pesticides                              |                    |                                   |  |  |  |  |  |  |  |                                                              |       |            |
| Organochlorine Pesticides               |                    |                                   |  |  |  |  |  |  |  |                                                              |       |            |
| Aldrin                                  | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Alpha-HCH (BHC)                         | -                  | <0.30 <sub>AG</sub>               |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Beta-HCH (BHC)                          | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Delta-HCH (BHC)                         | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Dieldrin                                | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan I                           | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan II                          | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan sulphate                    | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endrin                                  | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Gamma-HCH (BHC)                         | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Heptachlor                              | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Heptachlor Epoxide                      | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| o,p'-Methoxychlor                       | -                  | <0.30 <sub>AG</sub>               |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-DDE                                | -                  | <0.30 <sub>AG</sub>               |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-DDT                                | -                  | <0.30 <sub>AG</sub>               |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-Methoxychlor                       | -                  | <0.30 <sub>AG</sub>               |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-TDE                                | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Organophosphorus Pesticides             |                    |                                   |  |  |  |  |  |  |  |                                                              |       |            |
| Azinphos methyl                         | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Diazinon                                | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Dichlorvos                              | -                  | <0.30 <sub>AG</sub>               |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Disulfoton                              | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Ethion                                  | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Ethyl Parathion (Parathion)             | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Fenitrothion                            | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Malathion                               | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Methyl Parathion                        | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Mevinphos                               | -                  | <0.03 <sup>SV</sup> <sub>AB</sub> |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

|                                           |                       |                       |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
|-------------------------------------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--------------------------------------------------------------|------|---------|--------------------|------------|
| EMT Job No.                               | 24/3398               | 24/3398               |  |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |      |         |                    |            |
| EMT Sample No.                            | 71-84                 | 85-98                 |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Sample ID                                 | WS16                  | BH2520                |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Depth                                     | 2.88                  | 5.12                  |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| COC No / misc                             |                       |                       |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Containers                                | V H H N P B O D P F G | V H H N P B O D P F G |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Sample Date                               | 27/02/2024            | 27/02/2024            |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Sample Type                               | Ground Water          | Ground Water          |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Batch Number                              | 1                     | 1                     |  |  |  |  |  |  |  |  |                                                              |      | LOD/LOR | Units              | Method No. |
| Date of Receipt                           | 28/02/2024            | 28/02/2024            |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Acid Herbicides                           |                       |                       |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Benazolin                                 | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Bentazone                                 | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Bromoxynil                                | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Clopyralid                                | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| 4-CPA                                     | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| 2,4-D                                     | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| 2,4-DB                                    | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Dicamba                                   | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Dichloroprop                              | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Diclofop                                  | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Fenoprop                                  | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Flamprop                                  | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Flamprop-isopropyl                        | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Ioxynil                                   | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| MCPA                                      | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| MCPB                                      | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Mecoprop                                  | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Picloram                                  | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Pentachlorophenol                         | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| 2,4,5-T                                   | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| 2,3,6-TBA                                 | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| Triclopyr                                 | -                     | <0.1                  |  |  |  |  |  |  |  |  |                                                              | <0.1 | ug/l    | TM42/PM30          |            |
| MTBE #                                    | <5                    | -                     |  |  |  |  |  |  |  |  |                                                              | <5   | ug/l    | TM36/PM12          |            |
| Benzene #                                 | <5                    | -                     |  |  |  |  |  |  |  |  |                                                              | <5   | ug/l    | TM36/PM12          |            |
| Toluene #                                 | <5                    | -                     |  |  |  |  |  |  |  |  |                                                              | <5   | ug/l    | TM36/PM12          |            |
| Ethylbenzene #                            | <5                    | -                     |  |  |  |  |  |  |  |  |                                                              | <5   | ug/l    | TM36/PM12          |            |
| m/p-Xylene #                              | <5                    | -                     |  |  |  |  |  |  |  |  |                                                              | <5   | ug/l    | TM36/PM12          |            |
| o-Xylene #                                | <5                    | -                     |  |  |  |  |  |  |  |  |                                                              | <5   | ug/l    | TM36/PM12          |            |
| TPH CWG                                   |                       |                       |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| Aliphatics                                |                       |                       |  |  |  |  |  |  |  |  |                                                              |      |         |                    |            |
| >C5-C6 (HS_1D_AL) #                       | <10                   | <10                   |  |  |  |  |  |  |  |  |                                                              | <10  | ug/l    | TM36/PM12          |            |
| >C6-C8 (HS_1D_AL) #                       | <10                   | <10                   |  |  |  |  |  |  |  |  |                                                              | <10  | ug/l    | TM36/PM12          |            |
| >C8-C10 (HS_1D_AL) #                      | <10                   | <10                   |  |  |  |  |  |  |  |  |                                                              | <10  | ug/l    | TM36/PM12          |            |
| >C10-C12 (EH_CU_1D_AL) #                  | <5                    | <5                    |  |  |  |  |  |  |  |  |                                                              | <5   | ug/l    | TM5/PM16/PM30      |            |
| >C12-C16 (EH_CU_1D_AL) #                  | <10                   | <10                   |  |  |  |  |  |  |  |  |                                                              | <10  | ug/l    | TM5/PM16/PM30      |            |
| >C16-C21 (EH_CU_1D_AL) #                  | <10                   | <10                   |  |  |  |  |  |  |  |  |                                                              | <10  | ug/l    | TM5/PM16/PM30      |            |
| >C21-C35 (EH_CU_1D_AL) #                  | <10                   | 270                   |  |  |  |  |  |  |  |  |                                                              | <10  | ug/l    | TM5/PM16/PM30      |            |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) # | <10                   | 270                   |  |  |  |  |  |  |  |  |                                                              | <10  | ug/l    | TM5/PM16/PM30/PM30 |            |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|-------------------------------------------------------------|--------------------|--------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|-------|---------|------------------------|------------|
| EMT Job No.                                                 | 24/3398            | 24/3398            |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |         |                        |            |
| EMT Sample No.                                              | 71-84              | 85-98              |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| Sample ID                                                   | WS16               | BH2520             |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| Depth                                                       | 2.88               | 5.12               |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| COC No / misc                                               |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| Containers                                                  | V H H N P BOD PF G | V H H N P BOD PF G |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| Sample Date                                                 | 27/02/2024         | 27/02/2024         |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| Sample Type                                                 | Ground Water       | Ground Water       |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| Batch Number                                                | 1                  | 1                  |  |  |  |  |  |  |  |                                                              |       | LOD/LOR | Units                  | Method No. |
| Date of Receipt                                             | 28/02/2024         | 28/02/2024         |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| TPH CWG                                                     |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| Aromatics                                                   |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
| >C5-EC7 (HS_1D_AR) #                                        | <10                | <10                |  |  |  |  |  |  |  |                                                              | <10   | ug/l    | TM36/PM12              |            |
| >EC7-EC8 (HS_1D_AR) #                                       | <10                | <10                |  |  |  |  |  |  |  |                                                              | <10   | ug/l    | TM36/PM12              |            |
| >EC8-EC10 (HS_1D_AR) #                                      | <10                | <10                |  |  |  |  |  |  |  |                                                              | <10   | ug/l    | TM36/PM12              |            |
| >EC10-EC12 (EH_CU_1D_AR) #                                  | <5                 | <5                 |  |  |  |  |  |  |  |                                                              | <5    | ug/l    | TM5/PM16/PM3           |            |
| >EC12-EC16 (EH_CU_1D_AR) #                                  | <10                | <10                |  |  |  |  |  |  |  |                                                              | <10   | ug/l    | TM5/PM16/PM3           |            |
| >EC16-EC21 (EH_CU_1D_AR) #                                  | <10                | 60                 |  |  |  |  |  |  |  |                                                              | <10   | ug/l    | TM5/PM16/PM3           |            |
| >EC21-EC35 (EH_CU_1D_AR) #                                  | <10                | 710                |  |  |  |  |  |  |  |                                                              | <10   | ug/l    | TM5/PM16/PM3           |            |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                    | <10                | 770                |  |  |  |  |  |  |  |                                                              | <10   | ug/l    | TM5/TM36/PM12/PM16/PM3 |            |
| Total aliphatics and aromatics(C5-35) (EH_CU+HS_1D_Total) # | <10                | 1040               |  |  |  |  |  |  |  |                                                              | <10   | ug/l    | TM5/TM36/PM12/PM16/PM3 |            |
| Total Phenols HPLC                                          | <0.15              | <0.15              |  |  |  |  |  |  |  |                                                              | <0.15 | mg/l    | TM26/PM0               |            |
| Sulphate as SO4 #                                           | 150.7              | 79.5               |  |  |  |  |  |  |  |                                                              | <0.5  | mg/l    | TM38/PM0               |            |
| Chloride #                                                  | 27.8               | 25.0               |  |  |  |  |  |  |  |                                                              | <0.3  | mg/l    | TM38/PM0               |            |
| Nitrate as NO3 #                                            | 0.4                | 0.2                |  |  |  |  |  |  |  |                                                              | <0.2  | mg/l    | TM38/PM0               |            |
| Nitrite as NO2 #                                            | <0.02              | <0.02              |  |  |  |  |  |  |  |                                                              | <0.02 | mg/l    | TM38/PM0               |            |
| Ortho Phosphate as PO4 #                                    | <0.06              | <0.06              |  |  |  |  |  |  |  |                                                              | <0.06 | mg/l    | TM38/PM0               |            |
| Total Cyanide #                                             | <0.01              | <0.01              |  |  |  |  |  |  |  |                                                              | <0.01 | mg/l    | TM89/PM0               |            |
| Ammoniacal Nitrogen as N #                                  | 0.21               | 0.37               |  |  |  |  |  |  |  |                                                              | <0.03 | mg/l    | TM38/PM0               |            |
| Hexavalent Chromium                                         | <6                 | <6                 |  |  |  |  |  |  |  |                                                              | <6    | ug/l    | TM38/PM0               |            |
| Total Dissolved Chromium III                                | <6                 | <6                 |  |  |  |  |  |  |  |                                                              | <6    | ug/l    | TM0/PM0                |            |
| Total Alkalinity as CaCO3 #                                 | 436                | 406                |  |  |  |  |  |  |  |                                                              | <1    | mg/l    | TM75/PM0               |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |
|                                                             |                    |                    |  |  |  |  |  |  |  |                                                              |       |         |                        |            |

## Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-002  
Location: Manor Farm  
Contact: Eleanor Brown

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

|                 |                         |                         |  |  |  |  |  |  |  |  |                                                              |      |            |
|-----------------|-------------------------|-------------------------|--|--|--|--|--|--|--|--|--------------------------------------------------------------|------|------------|
| EMT Job No.     | 24/3398                 | 24/3398                 |  |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |      |            |
| EMT Sample No.  | 71-84                   | 85-98                   |  |  |  |  |  |  |  |  |                                                              |      |            |
| Sample ID       | WS16                    | BH2520                  |  |  |  |  |  |  |  |  |                                                              |      |            |
| Depth           | 2.88                    | 5.12                    |  |  |  |  |  |  |  |  |                                                              |      |            |
| COC No / misc   |                         |                         |  |  |  |  |  |  |  |  |                                                              |      |            |
| Containers      | V H H N N P B O D P F G | V H H N N P B O D P F G |  |  |  |  |  |  |  |  |                                                              |      |            |
| Sample Date     | 27/02/2024              | 27/02/2024              |  |  |  |  |  |  |  |  |                                                              |      |            |
| Sample Type     | Ground Water            | Ground Water            |  |  |  |  |  |  |  |  |                                                              |      |            |
| Batch Number    | 1                       | 1                       |  |  |  |  |  |  |  |  |                                                              |      |            |
| Date of Receipt | 28/02/2024              | 28/02/2024              |  |  |  |  |  |  |  |  |                                                              |      |            |
| PFAAS           |                         |                         |  |  |  |  |  |  |  |  |                                                              |      |            |
| PFBA            | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFPeA           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHxA           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHpA           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFOA            | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFNA            | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFDA            | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFUnA           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFDoA           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFTrDA          | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFTeDA          | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHxDA          | -                       | <0.1                    |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| PFODA           | -                       | <0.1                    |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| PFBS            | -                       | 0.08                    |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFPeS           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHxS           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHpS           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFOS            | -                       | 0.05                    |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFNS            | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFDS            | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFUnDS          | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFDoDS          | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFTrDS          | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| HFPO-DA (Gen X) | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| HFPO-TA         | -                       | <1                      |  |  |  |  |  |  |  |  | <1                                                           | ug/l | TM135/PM12 |
| DONA            | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFMOPrA         | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| NFDHA           | -                       | <0.1                    |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| PFMOBA          | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFECHS          | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| 3:3 FTCA        | -                       | <0.1                    |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| 5:3 FTCA        | -                       | <0.5                    |  |  |  |  |  |  |  |  | <0.5                                                         | ug/l | TM135/PM12 |
| 7:3 FTCA        | -                       | <0.1                    |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| PFEESA          | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| 9Cl-PF3ONS      | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| 11Cl-PF3OUdS    | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| 4:2 FTS         | -                       | <0.2                    |  |  |  |  |  |  |  |  | <0.2                                                         | ug/l | TM135/PM12 |
| 6:2 FTS         | -                       | <0.2                    |  |  |  |  |  |  |  |  | <0.2                                                         | ug/l | TM135/PM12 |
| 8:2 FTS         | -                       | <0.2                    |  |  |  |  |  |  |  |  | <0.2                                                         | ug/l | TM135/PM12 |
| FBSA            | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| FHxSA           | -                       | <0.05                   |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| FOSA            | -                       | <1                      |  |  |  |  |  |  |  |  | <1                                                           | ug/l | TM135/PM12 |
| N-MeFOSA        | -                       | <1                      |  |  |  |  |  |  |  |  | <1                                                           | ug/l | TM135/PM12 |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-002  
Location: Manor Farm  
Contact: Eleanor Brown

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Job No.     | 24/3398               | 24/3398                 |  |  |  |  |  |  |  |  |          |       |             |
|-----------------|-----------------------|-------------------------|--|--|--|--|--|--|--|--|----------|-------|-------------|
| EMT Sample No.  | 71-84                 | 85-98                   |  |  |  |  |  |  |  |  |          |       |             |
| Sample ID       | WS16                  | BH2520                  |  |  |  |  |  |  |  |  |          |       |             |
| Depth           | 2.88                  | 5.12                    |  |  |  |  |  |  |  |  |          |       |             |
| COC No / misc   |                       |                         |  |  |  |  |  |  |  |  |          |       |             |
| Containers      | V H H N P B O D P F G | V H H N N P B O D P F G |  |  |  |  |  |  |  |  |          |       |             |
| Sample Date     | 27/02/2024            | 27/02/2024              |  |  |  |  |  |  |  |  |          |       |             |
| Sample Type     | Ground Water          | Ground Water            |  |  |  |  |  |  |  |  |          |       |             |
| Batch Number    | 1                     | 1                       |  |  |  |  |  |  |  |  |          |       |             |
| Date of Receipt | 28/02/2024            | 28/02/2024              |  |  |  |  |  |  |  |  |          |       |             |
|                 |                       |                         |  |  |  |  |  |  |  |  | LOD/LOR  | Units | Method No.  |
| PFAAS Continued |                       |                         |  |  |  |  |  |  |  |  |          |       |             |
| N-EtFOSA        | -                     | <1                      |  |  |  |  |  |  |  |  | <1       | ug/l  | TM135/PM121 |
| Me-FOSE         | -                     | <0.1                    |  |  |  |  |  |  |  |  | <0.1     | ug/l  | TM135/PM121 |
| Et-FOSE         | -                     | <0.1                    |  |  |  |  |  |  |  |  | <0.1     | ug/l  | TM135/PM121 |
| N-MeFOSAA       | -                     | <1                      |  |  |  |  |  |  |  |  | <1       | ug/l  | TM135/PM121 |
| N-EtFOSAA       | -                     | <1                      |  |  |  |  |  |  |  |  | <1       | ug/l  | TM135/PM121 |
| 8:2diPAP        | -                     | <0.2                    |  |  |  |  |  |  |  |  | <0.2     | ug/l  | TM135/PM121 |
| FOUEA           | -                     | <1                      |  |  |  |  |  |  |  |  | <1       | ug/l  | TM135/PM121 |
| PFBA #          | -                     | 0.006                   |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFPeA #         | -                     | 0.027 <sup>AC</sup>     |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHxA #         | -                     | 0.022                   |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHpA #         | -                     | 0.007                   |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFOA #          | -                     | 0.00690                 |  |  |  |  |  |  |  |  | <0.00065 | ug/l  | TM135/PM122 |
| PFNA #          | -                     | 0.001                   |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFDA #          | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFUnA #         | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFDoA           | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFTTrDA         | -                     | <0.006                  |  |  |  |  |  |  |  |  | <0.006   | ug/l  | TM135/PM122 |
| PFTeDA          | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHxDA          | -                     | <0.01                   |  |  |  |  |  |  |  |  | <0.01    | ug/l  | TM135/PM122 |
| PFODA           | -                     | <0.025                  |  |  |  |  |  |  |  |  | <0.025   | ug/l  | TM135/PM122 |
| PFBS #          | -                     | 0.069                   |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFPeS #         | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHxS #         | -                     | 0.005                   |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHpS #         | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFOS #          | -                     | 0.02300                 |  |  |  |  |  |  |  |  | <0.00065 | ug/l  | TM135/PM122 |
| PFNS            | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFDS            | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFUnDS          | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFDoDS          | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFTTrDS         | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X) | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| HFPO-TA         | -                     | <0.02                   |  |  |  |  |  |  |  |  | <0.02    | ug/l  | TM135/PM122 |
| DONA #          | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFMOPrA         | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| NFDHA           | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFMOBA          | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFECHS          | -                     | 0.001                   |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| 3:3 FTCA        | -                     | <0.02                   |  |  |  |  |  |  |  |  | <0.02    | ug/l  | TM135/PM122 |
| 5:3 FTCA        | -                     | <0.01                   |  |  |  |  |  |  |  |  | <0.01    | ug/l  | TM135/PM122 |
| 7:3 FTCA        | -                     | <0.02                   |  |  |  |  |  |  |  |  | <0.02    | ug/l  | TM135/PM122 |
| PFEESA          | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| 9Cl-PF3ONS #    | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| 11Cl-PF3OUdS    | -                     | <0.001                  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

|                                           |                    |                     |  |  |  |  |  |  |  |                                                              |          |               |
|-------------------------------------------|--------------------|---------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|----------|---------------|
| EMT Job No.                               | 24/3398            | 24/3398             |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |          |               |
| EMT Sample No.                            | 71-84              | 85-98               |  |  |  |  |  |  |  |                                                              |          |               |
| Sample ID                                 | WS16               | BH2520              |  |  |  |  |  |  |  |                                                              |          |               |
| Depth                                     | 2.88               | 5.12                |  |  |  |  |  |  |  |                                                              |          |               |
| COC No / misc                             |                    |                     |  |  |  |  |  |  |  |                                                              |          |               |
| Containers                                | V H H N P BOD PF G | V H H N P BOD PF G  |  |  |  |  |  |  |  |                                                              |          |               |
| Sample Date                               | 27/02/2024         | 27/02/2024          |  |  |  |  |  |  |  |                                                              |          |               |
| Sample Type                               | Ground Water       | Ground Water        |  |  |  |  |  |  |  |                                                              |          |               |
| Batch Number                              | 1                  | 1                   |  |  |  |  |  |  |  |                                                              |          |               |
| Date of Receipt                           | 28/02/2024         | 28/02/2024          |  |  |  |  |  |  |  | LOD/LOR                                                      | Units    | Method No.    |
| PFAAS Continued                           |                    |                     |  |  |  |  |  |  |  |                                                              |          |               |
| 4:2 FTS                                   | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| 6:2 FTS                                   | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| 8:2 FTS                                   | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| FBSA                                      | -                  | <0.02               |  |  |  |  |  |  |  | <0.02                                                        | ug/l     | TM135/PM12    |
| FHxSA                                     | -                  | <0.02               |  |  |  |  |  |  |  | <0.02                                                        | ug/l     | TM135/PM12    |
| FOSA                                      | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| N-MeFOSA                                  | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| N-EtFOSA                                  | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| Me-FOSE                                   | -                  | <0.02               |  |  |  |  |  |  |  | <0.02                                                        | ug/l     | TM135/PM12    |
| Et-FOSE                                   | -                  | <0.02               |  |  |  |  |  |  |  | <0.02                                                        | ug/l     | TM135/PM12    |
| N-MeFOSAA                                 | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| N-EtFOSAA                                 | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| 8:2diPAP                                  | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| FOUEA                                     | -                  | <0.005              |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM12    |
| 1,4-Dioxane*                              | -                  | <0.49 <sup>AD</sup> |  |  |  |  |  |  |  | <0.07                                                        | ug/l     | Subcontractor |
| BOD (Settled) <sup>#</sup>                | 1                  | 2                   |  |  |  |  |  |  |  | <1                                                           | mg/l     | TM58/PMO      |
| COD (Settled) <sup>#</sup>                | 43                 | 43                  |  |  |  |  |  |  |  | <7                                                           | mg/l     | TM57/PMO      |
| Dissolved Oxygen                          | -                  | 5                   |  |  |  |  |  |  |  | <1                                                           | mg/l     | TM58/PMO      |
| Dissolved Organic Carbon <sup>#</sup>     | 2                  | 6                   |  |  |  |  |  |  |  | <2                                                           | mg/l     | TM60/PMO      |
| Electrical Conductivity @25C <sup>#</sup> | -                  | 705                 |  |  |  |  |  |  |  | <2                                                           | uS/cm    | TM76/PMO      |
| Free Ammonia as NH3                       | <0.007             | <0.007              |  |  |  |  |  |  |  | <0.007                                                       | mg/l     | TM176/PMO     |
| pH <sup>#</sup>                           | 7.99               | 7.21                |  |  |  |  |  |  |  | <0.01                                                        | pH units | TM73/PMO      |
| Total Dissolved Solids <sup>#</sup>       | -                  | 482                 |  |  |  |  |  |  |  | <35                                                          | mg/l     | TM20/PMO      |



SVOC Report : Liquid

QF-PM 3.1.3 v11 Please include all sections of this report if it is reproduced  
All solid results are expressed on a dry weight basis unless stated otherwise. 16 of 27

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown

**VOC Report :** Liquid

| EMT Job No.<br>EMT Sample No.           | 24/3334<br>1-14         | 24/3334<br>15-25,62     | 24/3334<br>26-35,63-64  | 24/3334<br>36-47        | 24/3398<br>85-98        |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                               | BH2518                  | SW01                    | SW02                    | SW03                    | BH2520                  |  |  |  |  |  |                                                              |       |            |
| Depth                                   | 0.85                    |                         |                         |                         | 5.12                    |  |  |  |  |  |                                                              |       |            |
| COC No / misc Containers                | V H H N N P B O D P F G | V H H N N P B O D G P F | H H N N P B O D P F G V | V H H N N P B O D P F G | V H H N N P B O D P F G |  |  |  |  |  |                                                              |       |            |
| Sample Date                             | 26/02/2024              | 26/02/2024              | 26/02/2024              | 26/02/2024              | 27/02/2024              |  |  |  |  |  |                                                              |       |            |
| Sample Type                             | Ground Water            | Surface Water           | Surface Water           | Surface Water           | Ground Water            |  |  |  |  |  |                                                              |       |            |
| Batch Number                            | 1                       | 1                       | 1                       | 1                       | 1                       |  |  |  |  |  |                                                              |       |            |
| Date of Receipt                         | 27/02/2024              | 27/02/2024              | 27/02/2024              | 27/02/2024              | 28/02/2024              |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| VOC MS                                  |                         |                         |                         |                         |                         |  |  |  |  |  |                                                              |       |            |
| Dichlorodifluoromethane                 | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #           | <0.1                    | <0.1                    | <0.1                    | <0.1                    | <0.1                    |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Chloromethane #                         | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Vinyl Chloride #                        | <0.1                    | <0.1                    | <0.1                    | <0.1                    | <0.1                    |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Bromomethane                            | <1                      | <1                      | <1                      | <1                      | <1                      |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Chloroethane #                          | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Trichlorofluoromethane #                | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloroethene (1,1 DCE) #          | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Dichloromethane (DCM) #                 | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| trans-1-2-Dichloroethene #              | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloroethane #                    | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| cis-1-2-Dichloroethene #                | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 2,2-Dichloropropane                     | <1                      | <1                      | <1                      | <1                      | <1                      |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Bromochloromethane #                    | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Chloroform #                            | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,1-Trichloroethane #                 | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloropropene #                   | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Carbon tetrachloride #                  | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichloroethane #                    | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Benzene #                               | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  |  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Trichloroethene (TCE) #                 | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichloropropane #                   | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Dibromomethane #                        | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Bromodichloromethane #                  | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| cis-1-3-Dichloropropene                 | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Toluene #                               | <5                      | <5                      | <5                      | <5                      | <5                      |  |  |  |  |  | <5                                                           | ug/l  | TM15/PM10  |
| trans-1-3-Dichloropropene               | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,2-Trichloroethane #                 | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Tetrachloroethene (PCE) #               | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3-Dichloropropane #                   | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Dibromochloromethane #                  | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2-Dibromoethane #                     | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Chlorobenzene #                         | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,1,2-Tetrachloroethane #             | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                          | <1                      | <1                      | <1                      | <1                      | <1                      |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                            | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                              | <1                      | <1                      | <1                      | <1                      | <1                      |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Styrene                                 | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Bromoform #                             | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Isopropylbenzene #                      | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1,2,2-Tetrachloroethane               | <4                      | <4                      | <4                      | <4                      | <4                      |  |  |  |  |  | <4                                                           | ug/l  | TM15/PM10  |
| Bromobenzene #                          | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,3-Trichloropropane #                | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Propylbenzene #                         | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 2-Chlorotoluene #                       | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3,5-Trimethylbenzene #                | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 4-Chlorotoluene #                       | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| tert-Butylbenzene #                     | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2,4-Trimethylbenzene #                | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| sec-Butylbenzene #                      | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 4-Isopropyltoluene #                    | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3-Dichlorobenzene #                   | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,4-Dichlorobenzene #                   | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| n-Butylbenzene #                        | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichlorobenzene #                   | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dibromo-3-chloropropane             | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,4-Trichlorobenzene                  | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Hexachlorobutadiene                     | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Naphthalene                             | <2                      | <2                      | <2                      | <2                      | <2                      |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,3-Trichlorobenzene                  | <3                      | <3                      | <3                      | <3                      | <3                      |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8           | 102                     | 103                     | 104                     | 101                     | 97                      |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |
| Surrogate Recovery 4-Bromofluorobenzene | 103                     | 101                     | 102                     | 99                      | 99                      |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |

## Element Materials Technology

### Notification of Deviating Samples

|                     |                |
|---------------------|----------------|
| <b>Client Name:</b> | Ramboll        |
| <b>Reference:</b>   | 1620016166-002 |
| <b>Location:</b>    | Manor Farm     |
| <b>Contact:</b>     | Eleanor Brown  |

**Matrix : Liquid**

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/3334 24/3398

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| AD      | Samples are dried at 35°C ±5°C                                                                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
| AA      | x2 Dilution                                                                                                                                                              |
| AB      | x3 Dilution                                                                                                                                                              |
| AC      | x5 Dilution                                                                                                                                                              |
| AD      | x7 Dilution                                                                                                                                                              |
| AE      | x10 Dilution                                                                                                                                                             |
| AF      | x20 Dilution                                                                                                                                                             |



# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |



## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/3334 24/3398

| Test Method No. | Description                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                       | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM0             | Not available                                                                                                                                                                                                      | PM0                              | No preparation is required.                                                                                                                                       |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                 | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                 | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present. | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex. | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                    | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                             | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                  | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                          |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                  | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                          | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                      | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                      | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             | Yes                   |                        |                                                 |                              |
| TM20            | Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids                                                                                              | PM0                              | No preparation is required.                                                                                                                                       | Yes                   |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/3334 24/3398

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                                                                                                                                 | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                   |                        |                                                 |                              |
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.   | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                             | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                             | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM42            | Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS                                                                                                                                                                                                                                                           | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                                 | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                    | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                    | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/3334 24/3398

| Test Method No. | Description                                                                                                                                                                                                                  | Prep Method No. (if appropriate) | Description                                                                                                             | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1. | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                    | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                    | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM76            | Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.                                                                                                              | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                                       | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                     | PM121                            | Preparation of PFAS liquid samples – As received samples are centrifuged and the supernatant is used for PFAS analysis. |                       |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                     | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                          |                       |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                     | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                          | Yes                   |                        |                                                 |                              |
| TM149           | Determination of Pesticides by Large Volume Injection on GC Triple Quad MS, based upon USEPA method 8270D v5:2014                                                                                                            | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                   |                       |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                                     | PM0                              | No preparation is required.                                                                                             |                       |                        |                                                 |                              |

Element Materials Technology

Method Code Appendix

EMT Job No: 24/3334 24/3398

| Test Method No. | Description                                                              | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------|----------------------------------|-------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| Subcontracted   | See attached subcontractor report for accreditation status and provider. |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |



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Ramboll  
240 Blackfriars Road  
London  
United Kingdom  
SE1 8NW



4225



**Attention :** Eleanor Brown  
**Date :** 18th March, 2024  
**Your reference :** 1620016166-002  
**Our reference :** Test Report 24/3461 Batch 1  
**Location :** Manor Farm  
**Date samples received :** 29th February, 2024  
**Status :** Final Report  
**Issue :** 202403181423

Five samples were received for analysis on 29th February, 2024 of which five were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 22.299 kg of CO2

Scope 1&2&3 emissions - 52.699 kg of CO2

**Authorised By:**

**Paul Boden BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-002  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/3461

Report : Liquid  
  
Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

| EMT Sample No.                      | 1,6-18              | 2,19-31               | 3,32-43,66            | 4,44-54               | 5,55-65               |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-------------------------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                           | BH2513              | BH2514                | BH2517                | BH2522                | BH2516                |  |  |  |  |  |                                                              |       |            |
| Depth                               | 4.64                | 4.75                  | 6.53                  | 4.99                  | 6.18                  |  |  |  |  |  |                                                              |       |            |
| COC No / misc                       |                     |                       |                       |                       |                       |  |  |  |  |  |                                                              |       |            |
| Containers                          | BOD V H H N P P F G | BOD V H H N N P P F G | BOD V H H N N P P F G | BOD V H H N N P P F G | BOD V H H N N P P F G |  |  |  |  |  |                                                              |       |            |
| Sample Date                         | 28/02/2024          | 28/02/2024            | 28/02/2024            | 28/02/2024            | 28/02/2024            |  |  |  |  |  |                                                              |       |            |
| Sample Type                         | Ground Water        | Ground Water          | Ground Water          | Ground Water          | Ground Water          |  |  |  |  |  |                                                              |       |            |
| Batch Number                        | 1                   | 1                     | 1                     | 1                     | 1                     |  |  |  |  |  |                                                              |       |            |
| Date of Receipt                     | 29/02/2024          | 29/02/2024            | 29/02/2024            | 29/02/2024            | 29/02/2024            |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Dissolved Arsenic #                 | 3.7                 | 4.2                   | 3.8                   | 8.4                   | 2.9                   |  |  |  |  |  | <2.5                                                         | ug/l  | TM30/PM14  |
| Dissolved Beryllium                 | <0.5                | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  |  |  |  | <0.5                                                         | ug/l  | TM30/PM14  |
| Dissolved Boron                     | 200                 | 468                   | 1590                  | 879                   | 624                   |  |  |  |  |  | <12                                                          | ug/l  | TM30/PM14  |
| Dissolved Cadmium #                 | <0.5                | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  |  |  |  | <0.5                                                         | ug/l  | TM30/PM14  |
| Total Dissolved Chromium #          | <1.5                | <1.5                  | <1.5                  | <1.5                  | <1.5                  |  |  |  |  |  | <1.5                                                         | ug/l  | TM30/PM14  |
| Dissolved Copper #                  | 9                   | <7                    | <7                    | <7                    | <7                    |  |  |  |  |  | <7                                                           | ug/l  | TM30/PM14  |
| Total Dissolved Iron #              | <20                 | 2221                  | 246                   | 40                    | 39                    |  |  |  |  |  | <20                                                          | ug/l  | TM30/PM14  |
| Dissolved Lead #                    | <5                  | <5                    | <5                    | <5                    | <5                    |  |  |  |  |  | <5                                                           | ug/l  | TM30/PM14  |
| Dissolved Mercury #                 | <1                  | <1                    | <1                    | <1                    | <1                    |  |  |  |  |  | <1                                                           | ug/l  | TM30/PM14  |
| Dissolved Nickel #                  | 2                   | 3                     | <2                    | <2                    | <2                    |  |  |  |  |  | <2                                                           | ug/l  | TM30/PM14  |
| Dissolved Selenium #                | <3                  | <3                    | <3                    | <3                    | <3                    |  |  |  |  |  | <3                                                           | ug/l  | TM30/PM14  |
| Dissolved Vanadium #                | 2.0                 | 3.0                   | 3.5                   | 4.5                   | 4.6                   |  |  |  |  |  | <1.5                                                         | ug/l  | TM30/PM14  |
| Dissolved Zinc #                    | 7                   | 4                     | <3                    | <3                    | 4                     |  |  |  |  |  | <3                                                           | ug/l  | TM30/PM14  |
| Total Hardness Dissolved (as CaCO3) | 570                 | 1268                  | 632                   | 1128                  | 525                   |  |  |  |  |  | <1                                                           | mg/l  | TM30/PM14  |
| PAH MS                              |                     |                       |                       |                       |                       |  |  |  |  |  |                                                              |       |            |
| Naphthalene #                       | <0.1                | <0.1                  | <0.1                  | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene #                    | 0.053               | 0.008                 | 0.027                 | 0.039                 | 0.204                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene #                      | 0.120               | 0.170                 | 2.561                 | 2.042                 | >>8.668               |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene #                          | 0.025               | 0.022                 | 0.529                 | 0.269                 | 1.958                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene #                      | 0.214               | <0.005                | 0.070                 | <0.005                | <0.005                |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene #                        | 0.094               | <0.005                | 0.105                 | <0.005                | 0.137                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene #                      | 1.114               | 0.030                 | 0.295                 | 0.700                 | 1.116                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene #                            | 1.021               | 0.029                 | 0.192                 | 0.582                 | 0.739                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                | 0.531               | 0.013                 | 0.017                 | 0.287                 | 0.077                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene #                          | 0.522               | 0.009                 | 0.015                 | 0.265                 | 0.074                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(bk)fluoranthene #             | 1.134               | 0.018                 | 0.017                 | 0.528                 | 0.144                 |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                    | 0.606               | 0.008                 | 0.007                 | 0.293                 | 0.080                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #               | 0.450               | 0.008                 | 0.007                 | 0.210                 | 0.068                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #             | 0.099               | <0.005                | <0.005                | 0.044                 | 0.014                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                | 0.399               | 0.007                 | 0.006                 | 0.201                 | 0.064                 |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total #                      | 6.382               | 0.322                 | 3.848                 | 5.460                 | 13.343                |  |  |  |  |  | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                | 0.816               | 0.013                 | 0.012                 | 0.380                 | 0.104                 |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                | 0.318               | <0.008                | <0.008                | 0.148                 | 0.040                 |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery            | 83                  | 89                    | 86                    | 74                    | 85                    |  |  |  |  |  | <0                                                           | %     | TM4/PM30   |
| VOC TICs                            | ND                  | -                     | -                     | ND                    | ND                    |  |  |  |  |  |                                                              | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #       | <0.1                | <0.1                  | <0.1                  | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Benzene #                           | <0.5                | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  |  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Toluene #                           | <5                  | <5                    | <5                    | <5                    | <5                    |  |  |  |  |  | <5                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                      | <1                  | <1                    | <1                    | <1                    | <1                    |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                        | <2                  | <2                    | <2                    | <2                    | <2                    |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                          | <1                  | <1                    | <1                    | <1                    | <1                    |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8       | 100                 | 92                    | 98                    | 98                    | 96                    |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/3461

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.                          | 1,6-18                            | 2,19-31             | 3,32-43,66          | 4,44-54             | 5,55-65             |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------------|-----------------------------------|---------------------|---------------------|---------------------|---------------------|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                               | BH2513                            | BH2514              | BH2517              | BH2522              | BH2516              |  |  |  |  |  |                                                              |       |            |
| Depth                                   | 4.64                              | 4.75                | 6.53                | 4.99                | 6.18                |  |  |  |  |  |                                                              |       |            |
| COC No / misc                           |                                   |                     |                     |                     |                     |  |  |  |  |  |                                                              |       |            |
| Containers                              | BOD V H H N P P F G               | BOD V H H N P P F G | BOD V H H N P P F G | BOD V H H N P P F G | BOD V H H N P P F G |  |  |  |  |  |                                                              |       |            |
| Sample Date                             | 28/02/2024                        | 28/02/2024          | 28/02/2024          | 28/02/2024          | 28/02/2024          |  |  |  |  |  |                                                              |       |            |
| Sample Type                             | Ground Water                      | Ground Water        | Ground Water        | Ground Water        | Ground Water        |  |  |  |  |  |                                                              |       |            |
| Batch Number                            | 1                                 | 1                   | 1                   | 1                   | 1                   |  |  |  |  |  |                                                              |       |            |
| Date of Receipt                         | 29/02/2024                        | 29/02/2024          | 29/02/2024          | 29/02/2024          | 29/02/2024          |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Surrogate Recovery 4-Bromofluorobenzene | 101                               | 95                  | 95                  | 98                  | 102                 |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |
| SVOC TICs                               | ND                                | -                   | -                   | See Attached        | ND                  |  |  |  |  |  |                                                              | None  | TM16/PM30  |
| Pesticides                              |                                   |                     |                     |                     |                     |  |  |  |  |  |                                                              |       |            |
| Organochlorine Pesticides               |                                   |                     |                     |                     |                     |  |  |  |  |  |                                                              |       |            |
| Aldrin                                  | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Alpha-HCH (BHC)                         | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Beta-HCH (BHC)                          | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Delta-HCH (BHC)                         | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Dieldrin                                | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan I                           | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan II                          | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan sulphate                    | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endrin                                  | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Gamma-HCH (BHC)                         | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Heptachlor                              | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Heptachlor Epoxide                      | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| o,p'-Methoxychlor                       | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-DDE                                | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-DDT                                | <0.30 <sub>AF</sub>               | -                   | -                   | <0.30 <sub>AF</sub> | <0.30 <sub>AF</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-Methoxychlor                       | <0.30 <sub>AF</sub>               | -                   | -                   | <0.30 <sub>AF</sub> | <0.30 <sub>AF</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-TDE                                | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Organophosphorus Pesticides             |                                   |                     |                     |                     |                     |  |  |  |  |  |                                                              |       |            |
| Azinphos methyl                         | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Diazinon                                | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Dichlorvos                              | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Disulfoton                              | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Ethion                                  | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Ethyl Parathion (Parathion)             | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Fenitrothion                            | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Malathion                               | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Methyl Parathion                        | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Mevinphos                               | <0.03 <sup>SV</sup> <sub>AB</sub> | -                   | -                   | <0.03 <sub>AB</sub> | <0.03 <sub>AB</sub> |  |  |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |

Element Materials Technology

**Client Name:** Ramboll

**Reference:** 1620016166-002

**Location:** Manor Farm

**Contact:** Eleanor Brown

**EMT Job No:** 24/3461

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                            | 1,6-18              | 2,19-31               | 3,32-43,66            | 4,44-54               | 5,55-65               |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |               |
|-------------------------------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--|--|--|--------------------------------------------------------------|-------|---------------|
| Sample ID                                 | BH2513              | BH2514                | BH2517                | BH2522                | BH2516                |  |  |  |  |  |                                                              |       |               |
| Depth                                     | 4.64                | 4.75                  | 6.53                  | 4.99                  | 6.18                  |  |  |  |  |  |                                                              |       |               |
| COC No / misc                             |                     |                       |                       |                       |                       |  |  |  |  |  |                                                              |       |               |
| Containers                                | BOD V H H N P P F G | BOD V H H N N P P F G | BOD V H H N N P P F G | BOD V H H N N P P F G | BOD V H H N N P P F G |  |  |  |  |  |                                                              |       |               |
| Sample Date                               | 28/02/2024          | 28/02/2024            | 28/02/2024            | 28/02/2024            | 28/02/2024            |  |  |  |  |  |                                                              |       |               |
| Sample Type                               | Ground Water        | Ground Water          | Ground Water          | Ground Water          | Ground Water          |  |  |  |  |  |                                                              |       |               |
| Batch Number                              | 1                   | 1                     | 1                     | 1                     | 1                     |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.    |
| Date of Receipt                           | 29/02/2024          | 29/02/2024            | 29/02/2024            | 29/02/2024            | 29/02/2024            |  |  |  |  |  |                                                              |       |               |
| Acid Herbicides                           |                     |                       |                       |                       |                       |  |  |  |  |  |                                                              |       |               |
| Benazolin                                 | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Bentazone                                 | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Bromoxynil                                | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Clopyralid                                | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| 4-CPA                                     | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| 2,4-D                                     | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| 2,4-DB                                    | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Dicamba                                   | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Dichloroprop                              | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Diclofop                                  | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Fenoprop                                  | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Flamprop                                  | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Flamprop-isopropyl                        | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Ioxynil                                   | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| MCPA                                      | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| MCPB                                      | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Mecoprop                                  | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Picloram                                  | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Pentachlorophenol                         | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| 2,4,5-T                                   | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| 2,3,6-TBA                                 | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| Triclopyr                                 | <0.1                | -                     | -                     | <0.1                  | <0.1                  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30     |
| TPH CWG                                   |                     |                       |                       |                       |                       |  |  |  |  |  |                                                              |       |               |
| Aliphatics                                |                     |                       |                       |                       |                       |  |  |  |  |  |                                                              |       |               |
| >C5-C6 (HS_1D_AL) #                       | <10                 | <10                   | <10                   | <10                   | <10                   |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >C6-C8 (HS_1D_AL) #                       | <10                 | <10                   | <10                   | <10                   | <10                   |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >C8-C10 (HS_1D_AL) #                      | <10                 | <10                   | <10                   | <10                   | <10                   |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >C10-C12 (EH_CU_1D_AL) #                  | <5                  | <5                    | <5                    | <5                    | <5                    |  |  |  |  |  | <5                                                           | ug/l  | TM5/PM16/PM30 |
| >C12-C16 (EH_CU_1D_AL) #                  | <10                 | <10                   | <10                   | <10                   | <10                   |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >C16-C21 (EH_CU_1D_AL) #                  | <10                 | <10                   | <10                   | <10                   | <10                   |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >C21-C35 (EH_CU_1D_AL) #                  | 2490                | <10                   | <10                   | <10                   | <10                   |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) # | 2490                | <10                   | <10                   | <10                   | <10                   |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |



## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/3461

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

| EMT Sample No.                                              | 1,6-18            | 2,19-31           | 3,32-43,66        | 4,44-54           | 5,55-65           |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |               |
|-------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|--|--|--|--------------------------------------------------------------|-------|---------------|
| Sample ID                                                   | BH2513            | BH2514            | BH2517            | BH2522            | BH2516            |  |  |  |  |  |                                                              |       |               |
| Depth                                                       | 4.64              | 4.75              | 6.53              | 4.99              | 6.18              |  |  |  |  |  |                                                              |       |               |
| COC No / misc                                               |                   |                   |                   |                   |                   |  |  |  |  |  |                                                              |       |               |
| Containers                                                  | BOD V H HN P PF G | BOD V H HN P PF G | BOD V H HN P PF G | BOD V H HN P PF G | BOD V H HN P PF G |  |  |  |  |  |                                                              |       |               |
| Sample Date                                                 | 28/02/2024        | 28/02/2024        | 28/02/2024        | 28/02/2024        | 28/02/2024        |  |  |  |  |  |                                                              |       |               |
| Sample Type                                                 | Ground Water      | Ground Water      | Ground Water      | Ground Water      | Ground Water      |  |  |  |  |  |                                                              |       |               |
| Batch Number                                                | 1                 | 1                 | 1                 | 1                 | 1                 |  |  |  |  |  |                                                              |       |               |
| Date of Receipt                                             | 29/02/2024        | 29/02/2024        | 29/02/2024        | 29/02/2024        | 29/02/2024        |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.    |
| TPH CWG                                                     |                   |                   |                   |                   |                   |  |  |  |  |  |                                                              |       |               |
| <b>Aromatics</b>                                            |                   |                   |                   |                   |                   |  |  |  |  |  |                                                              |       |               |
| >C5-EC7 (HS_1D_AR) #                                        | <10               | <10               | <10               | <10               | <10               |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC7-EC8 (HS_1D_AR) #                                       | <10               | <10               | <10               | <10               | <10               |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC8-EC10 (HS_1D_AR) #                                      | <10               | <10               | <10               | <10               | <10               |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC10-EC12 (EH_CU_1D_AR) #                                  | <5                | <5                | <5                | <5                | <5                |  |  |  |  |  | <5                                                           | ug/l  | TM5/PM16/PM30 |
| >EC12-EC16 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               | <10               | <10               |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >EC16-EC21 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               | <10               | <10               |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >EC21-EC35 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               | <10               | <10               |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                    | <10               | <10               | <10               | <10               | <10               |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aliphatics and aromatics(C5-35) (EH_CU+HS_1D_Total) # | 2490              | <10               | <10               | <10               | <10               |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total Phenols HPLC                                          | <0.15             | <0.15             | <0.15             | <0.15             | <0.15             |  |  |  |  |  | <0.15                                                        | mg/l  | TM26/PM0      |
| Sulphate as SO <sub>4</sub> #                               | 131.9             | 95.2              | 99.5              | 358.0             | 85.4              |  |  |  |  |  | <0.5                                                         | mg/l  | TM38/PM0      |
| Chloride #                                                  | 12.9              | 33.1              | 112.8             | 53.4              | 55.2              |  |  |  |  |  | <0.3                                                         | mg/l  | TM38/PM0      |
| Nitrate as NO <sub>3</sub> #                                | 1.2               | <0.2              | <0.2              | <0.2              | 8.1               |  |  |  |  |  | <0.2                                                         | mg/l  | TM38/PM0      |
| Nitrite as NO <sub>2</sub> #                                | 0.06              | <0.02             | <0.02             | <0.02             | 0.03              |  |  |  |  |  | <0.02                                                        | mg/l  | TM38/PM0      |
| Ortho Phosphate as PO <sub>4</sub> #                        | <0.06             | <0.06             | 0.20              | 0.17              | 1.33              |  |  |  |  |  | <0.06                                                        | mg/l  | TM38/PM0      |
| Total Cyanide #                                             | 0.01              | 0.03              | 0.01              | 0.02              | <0.01             |  |  |  |  |  | <0.01                                                        | mg/l  | TM89/PM0      |
| Ammoniacal Nitrogen as N #                                  | 0.90              | 7.55              | 12.96             | 16.73             | 3.08              |  |  |  |  |  | <0.03                                                        | mg/l  | TM38/PM0      |
| Hexavalent Chromium                                         | <6                | <6                | <6                | <6                | <6                |  |  |  |  |  | <6                                                           | ug/l  | TM38/PM0      |
| Total Dissolved Chromium III                                | <6                | <6                | <6                | <6                | <6                |  |  |  |  |  | <6                                                           | ug/l  | TM0/PM0       |
| Total Alkalinity as CaCO <sub>3</sub> #                     | 582               | 934               | 744               | 728               | 360               |  |  |  |  |  | <1                                                           | mg/l  | TM75/PM0      |

## Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-002  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/3461

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.  | 1,6-18            | 2,19-31             | 3,32-43,66          | 4,44-54             | 5,55-65             |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |             |
|-----------------|-------------------|---------------------|---------------------|---------------------|---------------------|--|--|--|--|--|--------------------------------------------------------------|-------|-------------|
| Sample ID       | BH2513            | BH2514              | BH2517              | BH2522              | BH2516              |  |  |  |  |  |                                                              |       |             |
| Depth           | 4.64              | 4.75                | 6.53                | 4.99                | 6.18                |  |  |  |  |  |                                                              |       |             |
| COC No / misc   |                   |                     |                     |                     |                     |  |  |  |  |  |                                                              |       |             |
| Containers      | BOD V H HN P PF G | BOD V H HN N P PF G | BOD V H HN N P PF G | BOD V H HN N P PF G | BOD V H HN N P PF G |  |  |  |  |  |                                                              |       |             |
| Sample Date     | 28/02/2024        | 28/02/2024          | 28/02/2024          | 28/02/2024          | 28/02/2024          |  |  |  |  |  |                                                              |       |             |
| Sample Type     | Ground Water      | Ground Water        | Ground Water        | Ground Water        | Ground Water        |  |  |  |  |  |                                                              |       |             |
| Batch Number    | 1                 | 1                   | 1                   | 1                   | 1                   |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.  |
| Date of Receipt | 29/02/2024        | 29/02/2024          | 29/02/2024          | 29/02/2024          | 29/02/2024          |  |  |  |  |  |                                                              |       |             |
| PFAAS           |                   |                     |                     |                     |                     |  |  |  |  |  |                                                              |       |             |
| PFBA            | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFPeA           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxA           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHpA           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFOA            | 0.06              | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFNA            | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDA            | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFUnA           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDaA           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTrDA          | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTeDA          | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxDA          | <0.1              | -                   | -                   | <0.1                | <0.1                |  |  |  |  |  | <0.1                                                         | ug/l  | TM135/PM121 |
| PFODA           | <0.1              | -                   | -                   | <0.1                | <0.1                |  |  |  |  |  | <0.1                                                         | ug/l  | TM135/PM121 |
| PFBS            | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFPeS           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxS           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHpS           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFOS            | 0.14              | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFNS            | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDS            | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFUnDS          | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDaDS          | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTrDS          | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| HFPO-DA (Gen X) | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| HFPO-TA         | <1                | -                   | -                   | <1                  | <1                  |  |  |  |  |  | <1                                                           | ug/l  | TM135/PM121 |
| DONA            | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFMOPrA         | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| NFDHA           | <0.1              | -                   | -                   | <0.1                | <0.1                |  |  |  |  |  | <0.1                                                         | ug/l  | TM135/PM121 |
| PFMOBA          | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| PFECHS          | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| 3:3 FTCA        | <0.1              | -                   | -                   | <0.1                | <0.1                |  |  |  |  |  | <0.1                                                         | ug/l  | TM135/PM121 |
| 5:3 FTCA        | <0.5              | -                   | -                   | <0.5                | <0.5                |  |  |  |  |  | <0.5                                                         | ug/l  | TM135/PM121 |
| 7:3 FTCA        | <0.1              | -                   | -                   | <0.1                | <0.1                |  |  |  |  |  | <0.1                                                         | ug/l  | TM135/PM121 |
| PFEESA          | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| 9Cl-PF3ONS      | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| 11Cl-PF3OUdS    | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| 4:2 FTS         | <0.2              | -                   | -                   | <0.2                | <0.2                |  |  |  |  |  | <0.2                                                         | ug/l  | TM135/PM121 |
| 6:2 FTS         | <0.2              | -                   | -                   | <0.2                | <0.2                |  |  |  |  |  | <0.2                                                         | ug/l  | TM135/PM121 |
| 8:2 FTS         | <0.2              | -                   | -                   | <0.2                | <0.2                |  |  |  |  |  | <0.2                                                         | ug/l  | TM135/PM121 |
| FBSA            | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| FHxSA           | <0.05             | -                   | -                   | <0.05               | <0.05               |  |  |  |  |  | <0.05                                                        | ug/l  | TM135/PM121 |
| FOSA            | <1                | -                   | -                   | <1                  | <1                  |  |  |  |  |  | <1                                                           | ug/l  | TM135/PM121 |
| N-MeFOSA        | <1                | -                   | -                   | <1                  | <1                  |  |  |  |  |  | <1                                                           | ug/l  | TM135/PM121 |

## Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-002  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/3461

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.          | 1,6-18                | 2,19-31             | 3,32-43,66          | 4,44-54               | 5,55-65             |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |             |
|-------------------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|--|--|--|--|--|--------------------------------------------------------------|-------|-------------|
| Sample ID               | BH2513                | BH2514              | BH2517              | BH2522                | BH2516              |  |  |  |  |  |                                                              |       |             |
| Depth                   | 4.64                  | 4.75                | 6.53                | 4.99                  | 6.18                |  |  |  |  |  |                                                              |       |             |
| COC No / misc           |                       |                     |                     |                       |                     |  |  |  |  |  |                                                              |       |             |
| Containers              | BOD V H H N P P F G   | BOD V H H N P P F G | BOD V H H N P P F G | BOD V H H N P P F G   | BOD V H H N P P F G |  |  |  |  |  |                                                              |       |             |
| Sample Date             | 28/02/2024            | 28/02/2024          | 28/02/2024          | 28/02/2024            | 28/02/2024          |  |  |  |  |  |                                                              |       |             |
| Sample Type             | Ground Water          | Ground Water        | Ground Water        | Ground Water          | Ground Water        |  |  |  |  |  |                                                              |       |             |
| Batch Number            | 1                     | 1                   | 1                   | 1                     | 1                   |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.  |
| Date of Receipt         | 29/02/2024            | 29/02/2024          | 29/02/2024          | 29/02/2024            | 29/02/2024          |  |  |  |  |  |                                                              |       |             |
| PFAAS Continued         |                       |                     |                     |                       |                     |  |  |  |  |  |                                                              |       |             |
| N-EtFOSA                | <1                    | -                   | -                   | <1                    | <1                  |  |  |  |  |  | <1                                                           | ug/l  | TM135/PM121 |
| Me-FOSE                 | <0.1                  | -                   | -                   | <0.1                  | <0.1                |  |  |  |  |  | <0.1                                                         | ug/l  | TM135/PM121 |
| Et-FOSE                 | <0.1                  | -                   | -                   | <0.1                  | <0.1                |  |  |  |  |  | <0.1                                                         | ug/l  | TM135/PM121 |
| N-MeFOSAA               | <1                    | -                   | -                   | <1                    | <1                  |  |  |  |  |  | <1                                                           | ug/l  | TM135/PM121 |
| N-EtFOSAA               | <1                    | -                   | -                   | <1                    | <1                  |  |  |  |  |  | <1                                                           | ug/l  | TM135/PM121 |
| 8:2diPAP                | <0.2                  | -                   | -                   | <0.2                  | <0.2                |  |  |  |  |  | <0.2                                                         | ug/l  | TM135/PM121 |
| FOUEA                   | <1                    | -                   | -                   | <1                    | <1                  |  |  |  |  |  | <1                                                           | ug/l  | TM135/PM121 |
| PFBA <sup>#</sup>       | 0.005                 | -                   | -                   | 0.078 <sup>AE</sup>   | 0.007               |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeA <sup>#</sup>      | 0.022 <sup>AC</sup>   | -                   | -                   | 0.025 <sup>AE</sup>   | 0.028 <sup>AC</sup> |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHx <sup>#</sup>       | 0.018                 | -                   | -                   | 0.027 <sup>AC</sup>   | 0.022               |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHp <sup>#</sup>       | 0.013                 | -                   | -                   | 0.011 <sup>AC</sup>   | 0.013               |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOA <sup>#</sup>       | 0.03930               | -                   | -                   | 0.03380 <sup>AC</sup> | 0.02860             |  |  |  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNA <sup>#</sup>       | 0.003                 | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDA <sup>#</sup>       | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUn <sup>#</sup>       | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFD <sup>o</sup> A      | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFT <sup>r</sup> DA     | <0.006                | -                   | -                   | <0.006                | <0.006              |  |  |  |  |  | <0.006                                                       | ug/l  | TM135/PM122 |
| PFT <sup>e</sup> DA     | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxDA                  | <0.01                 | -                   | -                   | <0.01                 | <0.01               |  |  |  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| PFODA                   | <0.025                | -                   | -                   | <0.025                | <0.025              |  |  |  |  |  | <0.025                                                       | ug/l  | TM135/PM122 |
| PFBS <sup>#</sup>       | 0.007                 | -                   | -                   | 0.026                 | 0.010               |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeS <sup>#</sup>      | 0.002                 | -                   | -                   | 0.008                 | 0.005               |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxS <sup>#</sup>      | 0.021                 | -                   | -                   | 0.042 <sup>AC</sup>   | 0.029               |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpS <sup>#</sup>      | 0.001                 | -                   | -                   | <0.001                | 0.001               |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOS <sup>#</sup>       | 0.07830 <sup>AC</sup> | -                   | -                   | 0.02960               | 0.01860             |  |  |  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNS                    | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDS                    | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnDS                  | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFD <sup>o</sup> DS     | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFT <sup>r</sup> DS     | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X)         | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-TA                 | <0.02                 | -                   | -                   | <0.02                 | <0.02               |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| DONA <sup>#</sup>       | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOPrA                 | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| NFDHA                   | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOBA                  | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFECHS                  | 0.003                 | -                   | -                   | 0.023                 | 0.002               |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 3:3 FTCA                | <0.02                 | -                   | -                   | <0.02                 | <0.02               |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| 5:3 FTCA                | <0.01                 | -                   | -                   | <0.01                 | <0.01               |  |  |  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| 7:3 FTCA                | <0.02                 | -                   | -                   | <0.02                 | <0.02               |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| PFEESA                  | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 9Cl-PF3ONS <sup>#</sup> | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 11Cl-PF3OUs             | <0.001                | -                   | -                   | <0.001                | <0.001              |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/3461

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

[illegible]

SVOC Report : Liquid

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

Client Name: Ramboll  
 Reference: 1620016166-002  
 Location: Manor Farm  
 Contact: Eleanor Brown  
 EMT Job No: 24/3461

VOC Report : Liquid

| EMT Sample No.                          | 1,6-18              | 4,44-54             | 5,55-65             |  |  |  |  |  |  |      |      |           |
|-----------------------------------------|---------------------|---------------------|---------------------|--|--|--|--|--|--|------|------|-----------|
| Sample ID                               | BH2513              | BH2522              | BH2516              |  |  |  |  |  |  |      |      |           |
| Depth                                   | 4.64                | 4.99                | 6.18                |  |  |  |  |  |  |      |      |           |
| COC No / misc                           |                     |                     |                     |  |  |  |  |  |  |      |      |           |
| Containers                              | BOD V H H N P P F G | BOD V H H N P P F G | BOD V H H N P P F G |  |  |  |  |  |  |      |      |           |
| Sample Date                             | 28/02/2024          | 28/02/2024          | 28/02/2024          |  |  |  |  |  |  |      |      |           |
| Sample Type                             | Ground Water        | Ground Water        | Ground Water        |  |  |  |  |  |  |      |      |           |
| Batch Number                            | 1                   | 1                   | 1                   |  |  |  |  |  |  |      |      |           |
| Date of Receipt                         | 29/02/2024          | 29/02/2024          | 29/02/2024          |  |  |  |  |  |  |      |      |           |
|                                         | LOD/LOR             | Units               | Method No.          |  |  |  |  |  |  |      |      |           |
| VOC MS                                  |                     |                     |                     |  |  |  |  |  |  |      |      |           |
| Dichlorodifluoromethane                 | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Methyl Tertiary Butyl Ether #           | <0.1                | <0.1                | <0.1                |  |  |  |  |  |  | <0.1 | ug/l | TM15/PM10 |
| Chloromethane #                         | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Vinyl Chloride #                        | <0.1                | <0.1                | <0.1                |  |  |  |  |  |  | <0.1 | ug/l | TM15/PM10 |
| Bromomethane                            | <1                  | <1                  | <1                  |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Chloroethane #                          | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Trichlorofluoromethane #                | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1-Dichloroethene (1,1 DCE) #          | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Dichloromethane (DCM) #                 | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| trans-1-2-Dichloroethene #              | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1-Dichloroethane #                    | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| cis-1-2-Dichloroethene #                | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 2,2-Dichloropropane                     | <1                  | <1                  | <1                  |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Bromochloromethane #                    | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Chloroform #                            | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,1-Trichloroethane #                 | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1-Dichloropropene #                   | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Carbon tetrachloride #                  | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2-Dichloroethane #                    | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Benzene #                               | <0.5                | <0.5                | <0.5                |  |  |  |  |  |  | <0.5 | ug/l | TM15/PM10 |
| Trichloroethene (TCE) #                 | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dichloropropane #                   | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Dibromomethane #                        | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Bromodichloromethane #                  | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| cis-1-3-Dichloropropene                 | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Toluene #                               | <5                  | <5                  | <5                  |  |  |  |  |  |  | <5   | ug/l | TM15/PM10 |
| trans-1-3-Dichloropropene               | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,2-Trichloroethane #                 | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Tetrachloroethene (PCE) #               | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3-Dichloropropane #                   | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Dibromochloromethane #                  | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2-Dibromoethane #                     | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Chlorobenzene #                         | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,1,2-Tetrachloroethane #             | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Ethylbenzene #                          | <1                  | <1                  | <1                  |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| m/p-Xylene #                            | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| o-Xylene #                              | <1                  | <1                  | <1                  |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Styrene                                 | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Bromoform #                             | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Isopropylbenzene #                      | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1,2,2-Tetrachloroethane               | <4                  | <4                  | <4                  |  |  |  |  |  |  | <4   | ug/l | TM15/PM10 |
| Bromobenzene #                          | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,3-Trichloropropane #                | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Propylbenzene #                         | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 2-Chlorotoluene #                       | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3,5-Trimethylbenzene #                | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 4-Chlorotoluene #                       | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| tert-Butylbenzene #                     | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2,4-Trimethylbenzene #                | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| sec-Butylbenzene #                      | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 4-Isopropyltoluene #                    | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3-Dichlorobenzene #                   | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,4-Dichlorobenzene #                   | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| n-Butylbenzene #                        | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dichlorobenzene #                   | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dibromo-3-chloropropane             | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,4-Trichlorobenzene                  | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Hexachlorobutadiene                     | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Naphthalene                             | <2                  | <2                  | <2                  |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,3-Trichlorobenzene                  | <3                  | <3                  | <3                  |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Surrogate Recovery Toluene D8           | 100                 | 98                  | 96                  |  |  |  |  |  |  | <0   | %    | TM15/PM10 |
| Surrogate Recovery 4-Bromofluorobenzene | 101                 | 98                  | 102                 |  |  |  |  |  |  | <0   | %    | TM15/PM10 |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

|                         |              |
|-------------------------|--------------|
| <b>Job number:</b>      | 24/3461      |
| <b>Sample number:</b>   | 54           |
| <b>Sample identity:</b> | BH2522       |
| <b>Sample depth:</b>    | 4.99         |
| <b>Sample Type:</b>     | Ground Water |
| <b>Units:</b>           | ug/l         |

**Method:** SVOC  
**Matrix:** Liquid

**Note:** Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

[illegible]

## Element Materials Technology

|                     |                |
|---------------------|----------------|
| <b>Client Name:</b> | Ramboll        |
| <b>Reference:</b>   | 1620016166-002 |
| <b>Location:</b>    | Manor Farm     |
| <b>Contact:</b>     | Eleanor Brown  |

### Notification of Deviating Samples

**Matrix : Liquid**

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.



EMT Job No.: 24/3461

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| AD      | Samples are dried at 35°C ±5°C                                                                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
| AA      | x2 Dilution                                                                                                                                                              |
| AB      | x3 Dilution                                                                                                                                                              |
| AC      | x5 Dilution                                                                                                                                                              |
| AD      | x6 Dilution                                                                                                                                                              |
| AE      | x10 Dilution                                                                                                                                                             |
| AF      | x30 Dilution                                                                                                                                                             |



# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/3461

| Test Method No. | Description                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                       | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM0             | Not available                                                                                                                                                                                                      | PM0                              | No preparation is required.                                                                                                                                       |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                 | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                 | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present. | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex. | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                    | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                             | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                  | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                          |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                  | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                          | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                      | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                      | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             | Yes                   |                        |                                                 |                              |
| TM20            | Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids                                                                                              | PM0                              | No preparation is required.                                                                                                                                       | Yes                   |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/3461

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                                                                                                                                 | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                   |                        |                                                 |                              |
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.   | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                             | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                             | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM42            | Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS                                                                                                                                                                                                                                                           | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                                 | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                    | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                    | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/3461

| Test Method No. | Description                                                                                                                                                                                                                  | Prep Method No. (if appropriate) | Description                                                                                                             | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1. | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                    | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                    | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM76            | Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.                                                                                                              | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                                       | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                     | PM121                            | Preparation of PFAS liquid samples – As received samples are centrifuged and the supernatant is used for PFAS analysis. |                       |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                     | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                          |                       |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                     | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                          | Yes                   |                        |                                                 |                              |
| TM149           | Determination of Pesticides by Large Volume Injection on GC Triple Quad MS, based upon USEPA method 8270D v5:2014                                                                                                            | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                   |                       |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                                     | PM0                              | No preparation is required.                                                                                             |                       |                        |                                                 |                              |



Element Materials Technology

Method Code Appendix

EMT Job No: 24/3461

| Test Method No. | Description                                                              | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------|----------------------------------|-------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| Subcontracted   | See attached subcontractor report for accreditation status and provider. |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |



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Element Materials Technology  
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Zone 3 Deeside Industrial Park  
Deeside  
CH5 2UA

**Attention:** Project Managers

## CERTIFICATE OF ANALYSIS

|                                     |                              |
|-------------------------------------|------------------------------|
| <b>Date of report Generation:</b>   | 07 March 2024                |
| <b>Customer:</b>                    | Element Materials Technology |
| <b>Sample Delivery Group (SDG):</b> | 240301-66                    |
| <b>Your Reference:</b>              | 24/3334 24/3398              |
| <b>Location:</b>                    |                              |
| <b>Report No:</b>                   | 722332                       |
| <b>Order Number:</b>                | GB05104345PO                 |

We received 4 samples on Friday March 01, 2024 and 4 of these samples were scheduled for analysis which was completed on Thursday March 07, 2024. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

**Sonia McWhan**

Operations Manager



# CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED - 17/12/2024  
Validated

SDG: 240301-66  
Client Ref.: 24/3334 24/3398

Report Number: 722332  
Location:

Superseded Report:

## Received Sample Overview

| Lab Sample No(s) | Customer Sample Ref. | AGS Ref. | Depth (m) | Sampled Date |
|------------------|----------------------|----------|-----------|--------------|
| 29438512         | 24/3334-12-LIQUID    |          |           | 26/02/2024   |
| 29438513         | 24/3334-23-LIQUID    |          |           | 26/02/2024   |
| 29438514         | 24/3334-33-LIQUID    |          |           | 26/02/2024   |
| 29438515         | 24/3398-95-LIQUID    |          |           | 27/02/2024   |

Only received samples which have had analysis scheduled will be shown on the following pages.







CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED 17/12/2024  
Validated

SDG: 240301-66      Report Number: 722332      Superseded Report:  
Client Ref.: 24/3334 24/3398      Location:

Table of Results - Appendix

| Method No | Description                                    |
|-----------|------------------------------------------------|
| TM420     | Determination of 1,4-Dioxane in liquid by GCMS |

NA = not applicable.  
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



# CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED - 17-12-2024  
Validated

SDG: 240301-66  
Client Ref.: 24/3334 24/3398

Report Number: 722332  
Location:

Superseded Report:

## Test Completion Dates

| Lab Sample No(s)     | 29438512           | 29438513           | 29438514           | 29438515           |
|----------------------|--------------------|--------------------|--------------------|--------------------|
| Customer Sample Ref. | 24/3334-12-LIQU ID | 24/3334-23-LIQU ID | 24/3334-33-LIQU ID | 24/3398-95-LIQU ID |
| AGS Ref.             |                    |                    |                    |                    |
| Depth                |                    |                    |                    |                    |
| Type                 | Ground Water       | Surface Water      | Surface Water      | Ground Water       |
| 1,4-Dioxane          | 07-Mar-2024        | 07-Mar-2024        | 07-Mar-2024        | 07-Mar-2024        |



SDG: 240301-66  
Client Ref: 24/3334 24/3398

Report Number: 722332  
Location:

Superseded Report:

## Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH<sub>4</sub> by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

## General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

### 19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

|   |                                                                             |
|---|-----------------------------------------------------------------------------|
| 1 | Container with Headspace provided for volatiles analysis                    |
| 2 | Incorrect container received                                                |
| 3 | Deviation from method                                                       |
| 4 | Matrix interference                                                         |
| ♦ | Sample holding time exceeded in laboratory                                  |
| @ | Sample holding time exceeded due to late arrival of instructions or samples |
| § | Sampled on date not provided                                                |

### 20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

#### Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

| Asbestos Type         | Common Name    |
|-----------------------|----------------|
| Chrysotile            | White Asbestos |
| Amosite               | Brown Asbestos |
| Crocidolite           | Blue Asbestos  |
| Fibrous Actinolite    | -              |
| Fibrous Anthophyllite | -              |
| Fibrous Tremolite     | -              |

#### Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

#### Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

**Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.**

**The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.**





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Website: www.alsenvironmental.co.uk

Element Materials Technology  
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Zone 3 Deeside Industrial Park  
Deeside  
CH5 2UA

**Attention:** Project Managers

## CERTIFICATE OF ANALYSIS

|                                     |                              |
|-------------------------------------|------------------------------|
| <b>Date of report Generation:</b>   | 11 March 2024                |
| <b>Customer:</b>                    | Element Materials Technology |
| <b>Sample Delivery Group (SDG):</b> | 240305-25                    |
| <b>Your Reference:</b>              | 24/3261                      |
| <b>Location:</b>                    |                              |
| <b>Report No:</b>                   | 722738                       |
| <b>Order Number:</b>                | GB05104376PO                 |

We received 3 samples on Tuesday March 05, 2024 and 3 of these samples were scheduled for analysis which was completed on Monday March 11, 2024. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

**Sonia McWhan**

Operations Manager



CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED - 17-12-2024  
Validated

SDG: 240305-25      Report Number: 722738      Superseded Report:  
Client Ref.: 24/3261      Location:

Received Sample Overview

| Lab Sample No(s) | Customer Sample Ref. | AGS Ref. | Depth (m) | Sampled Date |
|------------------|----------------------|----------|-----------|--------------|
| 29451701         | 24/3461-15-LIQUID    |          |           | 28/02/2024   |
| 29451702         | 24/3461-51-LIQUID    |          |           | 28/02/2024   |
| 29451703         | 24/3461-62-LIQUID    |          |           | 28/02/2024   |

Only received samples which have had analysis scheduled will be shown on the following pages.



# CERTIFICATE OF ANALYSIS

SDG: 240305-25  
Client Ref.: 24/3261

Report Number: 722738  
Location:

Superseded Report:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                     |                     |                     |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------|---------------------|---------------------|---------------------|
| <b>Results Legend</b><br><div><div>X</div> Test</div> <div><div>N</div> No Determination Possible</div><br>Sample Types -<br>S - Soil/Solid<br>UNS - Unspecified Solid<br>GW - Ground Water<br>SW - Surface Water<br>LE - Land Leachate<br>PL - Prepared Leachate<br>PR - Process Water<br>SA - Saline Water<br>TE - Trade Effluent<br>TS - Treated Sewage<br>US - Untreated Sewage<br>RE - Recreational Water<br>DW - Drinking Water<br>Non-regulatory<br>UNL - Unspecified Liquid<br>SL - Sludge<br>G - Gas<br>OTH - Other |     |                     |                     |                     |                     |
| Lab Sample No(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                     | 29451701            | 29451702            | 29451703            |
| Customer Sample Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                     | 24/3461-15-LIQUID   | 24/3461-51-LIQUID   | 24/3461-62-LIQUID   |
| AGS Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                     |                     |                     |                     |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                     |                     |                     |                     |
| Container                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                     | 250 ml Glass Bottle | 250 ml Glass Bottle | 250 ml Glass Bottle |
| Sample Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                     | GW                  | GW                  | GW                  |
| 1,4-Dioxane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | All | NDPs: 0<br>Tests: 3 | X                   | X                   | X                   |





CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED 17/12/2024  
Validated

SDG: 240305-25      Report Number: 722738      Superseded Report:  
Client Ref.: 24/3261      Location:

Table of Results - Appendix

| Method No | Description                                    |
|-----------|------------------------------------------------|
| TM420     | Determination of 1,4-Dioxane in liquid by GCMS |

NA = not applicable.  
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



# CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED - 17-12-2024  
Validated

SDG: 240305-25  
Client Ref.: 24/3261

Report Number: 722738  
Location:

Superseded Report:

## Test Completion Dates

| Lab Sample No(s)     | 29451701              | 29451702              | 29451703              |
|----------------------|-----------------------|-----------------------|-----------------------|
| Customer Sample Ref. | 24/3461-15-LIQU<br>ID | 24/3461-51-LIQU<br>ID | 24/3461-62-LIQU<br>ID |
| AGS Ref.             |                       |                       |                       |
| Depth                |                       |                       |                       |
| Type                 | Ground Water          | Ground Water          | Ground Water          |
| 1,4-Dioxane          | 11-Mar-2024           | 11-Mar-2024           | 11-Mar-2024           |



SDG: 240305-25  
Client Ref: 24/3261

Report Number: 722738  
Location:

Superseded Report:

## Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH<sub>4</sub> by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEx). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

## General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

### 19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

|   |                                                                             |
|---|-----------------------------------------------------------------------------|
| 1 | Container with Headspace provided for volatiles analysis                    |
| 2 | Incorrect container received                                                |
| 3 | Deviation from method                                                       |
| 4 | Matrix interference                                                         |
| ♦ | Sample holding time exceeded in laboratory                                  |
| @ | Sample holding time exceeded due to late arrival of instructions or samples |
| § | Sampled on date not provided                                                |

### 20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

#### Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

| Asbestos Type         | Common Name    |
|-----------------------|----------------|
| Chrysotile            | White Asbestos |
| Amosite               | Brown Asbestos |
| Crocidolite           | Blue Asbestos  |
| Fibrous Actinolite    | -              |
| Fibrous Anthophyllite | -              |
| Fibrous Tremolite     | -              |

#### Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

#### Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

**Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.**

**The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.**



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4225



**Attention :** Eleanor Brown  
**Date :** 26th April, 2024  
**Your reference :** 1620016166-002  
**Our reference :** Test Report 24/6046 Batch 1 Schedule A 24/6046 Batch 1 Schedule C 24/6046 Batch  
**Location :** Manor Farm  
**Date samples received :** 10th April, 2024  
**Status :** Final Report  
**Issue :** 202404261517

Seven samples were received for analysis on 10th April, 2024 of which seven were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 30.336 kg of CO2

Scope 1&2&3 emissions - 71.691 kg of CO2

**Authorised By:**

**Simon Gomery BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced



## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6046

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                      | 1-11            | 12-22                | 23-33                | 34-42              | 43-53           | 54-64           | 65-75           |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-------------------------------------|-----------------|----------------------|----------------------|--------------------|-----------------|-----------------|-----------------|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                           | BH2513          | BH2514               | BH2517               | BH2522             | SW1             | SW2             | SW3             |  |  |  |                                                              |       |            |
| Depth                               | 2.50            | 2.30                 | 3.75                 | 2.50               |                 |                 |                 |  |  |  |                                                              |       |            |
| COC No / misc                       |                 |                      |                      |                    |                 |                 |                 |  |  |  |                                                              |       |            |
| Containers                          | V H H N P P F G | V H H N P P F G      | V H H N P P F G      | V H H N P P F G    | V H H N P P F G | V H H N P P F G | V H H N P P F G |  |  |  |                                                              |       |            |
| Sample Date                         | 09/04/2024      | 09/04/2024           | 09/04/2024           | 09/04/2024         | 09/04/2024      | 09/04/2024      | 09/04/2024      |  |  |  |                                                              |       |            |
| Sample Type                         | Ground Water    | Ground Water         | Ground Water         | Ground Water       | Surface Water   | Surface Water   | Surface Water   |  |  |  |                                                              |       |            |
| Batch Number                        | 1               | 1                    | 1                    | 1                  | 1               | 1               | 1               |  |  |  |                                                              |       |            |
| Date of Receipt                     | 10/04/2024      | 10/04/2024           | 10/04/2024           | 10/04/2024         | 10/04/2024      | 10/04/2024      | 10/04/2024      |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Dissolved Arsenic #                 | 3.3             | 1.3                  | 3.9                  | 7.6                | 0.9             | 0.9             | <0.9            |  |  |  | <0.9                                                         | ug/l  | TM170/PM14 |
| Dissolved Beryllium #               | <0.5            | <0.5                 | <0.5                 | <0.5               | <0.5            | <0.5            | <0.5            |  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Boron #                   | 296             | 556                  | 1873 <sup>AB</sup>   | 1111 <sup>AB</sup> | 60              | 53              | 44              |  |  |  | <12                                                          | ug/l  | TM170/PM14 |
| Dissolved Cadmium #                 | 0.04            | <0.03                | <0.03                | <0.03              | <0.03           | <0.03           | <0.03           |  |  |  | <0.03                                                        | ug/l  | TM170/PM14 |
| Total Dissolved Chromium #          | 0.4             | 1.0                  | 0.8                  | 1.4                | 0.3             | 0.3             | 0.3             |  |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Copper #                  | 9               | <1                   | <1                   | <1                 | 2               | 2               | 2               |  |  |  | <1                                                           | ug/l  | TM170/PM14 |
| Total Dissolved Iron #              | 920.8           | 2355.5 <sup>AB</sup> | 1619.6 <sup>AB</sup> | 30.0               | 32.6            | 28.0            | 26.4            |  |  |  | <4.7                                                         | ug/l  | TM170/PM14 |
| Dissolved Lead #                    | <0.4            | <0.4                 | <0.4                 | <0.4               | <0.4            | <0.4            | <0.4            |  |  |  | <0.4                                                         | ug/l  | TM170/PM14 |
| Dissolved Mercury #                 | <0.5            | <0.5                 | <0.5                 | <0.5               | <0.5            | <0.5            | <0.5            |  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Nickel #                  | 4.4             | 1.8                  | 2.6                  | 1.7                | 2.0             | 1.7             | 1.5             |  |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Selenium #                | <1.2            | <1.2                 | <1.2                 | <1.2               | <1.2            | <1.2            | <1.2            |  |  |  | <1.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Vanadium #                | 3.3             | 2.4                  | 3.6                  | 6.1                | 1.7             | 1.6             | 1.7             |  |  |  | <0.6                                                         | ug/l  | TM170/PM14 |
| Dissolved Zinc #                    | 8.0             | 2.2                  | 2.3                  | 2.5                | 6.3             | 6.4             | 5.8             |  |  |  | <1.5                                                         | ug/l  | TM170/PM14 |
| Total Hardness Dissolved (as CaCO3) | 799             | 1219                 | 646                  | 918                | 277             | 286             | 287             |  |  |  | <1                                                           | mg/l  | TM30/PM14  |
| PAH MS                              |                 |                      |                      |                    |                 |                 |                 |  |  |  |                                                              |       |            |
| Naphthalene #                       | <0.1            | <0.1                 | <0.1                 | <0.1               | <0.1            | <0.1            | <0.1            |  |  |  | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene #                    | <0.005          | 0.007                | 0.031                | 0.022              | <0.005          | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene #                      | 0.011           | 0.162                | 2.432                | 1.578              | <0.005          | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene #                          | <0.005          | 0.021                | 0.422                | 0.212              | <0.005          | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene #                      | <0.005          | 0.012                | 0.030                | 0.012              | <0.005          | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene #                        | 0.011           | 0.011                | 0.079                | 0.027              | <0.005          | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene #                      | 0.011           | 0.019                | 0.186                | 0.019              | 0.012           | 0.007           | 0.008           |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene #                            | 0.011           | 0.015                | 0.119                | 0.012              | 0.012           | 0.007           | 0.009           |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                | <0.005          | <0.005               | 0.009                | <0.005             | <0.005          | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene #                          | <0.005          | <0.005               | 0.008                | <0.005             | <0.005          | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene #              | 0.015           | <0.008               | <0.008               | <0.008             | 0.012           | <0.008          | <0.008          |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                    | 0.008           | <0.005               | <0.005               | <0.005             | 0.006           | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #               | 0.007           | <0.005               | <0.005               | <0.005             | 0.006           | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #             | <0.005          | <0.005               | <0.005               | <0.005             | <0.005          | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                | 0.008           | <0.005               | <0.005               | <0.005             | 0.006           | <0.005          | <0.005          |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total #                      | <0.173          | 0.247                | 3.316                | 1.882              | <0.173          | <0.173          | <0.173          |  |  |  | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                | 0.011           | <0.008               | <0.008               | <0.008             | 0.009           | <0.008          | <0.008          |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                | <0.008          | <0.008               | <0.008               | <0.008             | <0.008          | <0.008          | <0.008          |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery            | 76              | 74                   | 85                   | 79                 | 90              | 89              | 85              |  |  |  | <0                                                           | %     | TM4/PM30   |
| VOC TICs                            | ND              | -                    | ND                   | ND                 | ND              | ND              | -               |  |  |  |                                                              | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #       | <0.1            | -                    | <0.1                 | <0.1               | <0.1            | <0.1            | -               |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Benzene #                           | <0.5            | -                    | <0.5                 | <0.5               | <0.5            | <0.5            | -               |  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Toluene #                           | <5              | -                    | <5                   | <5                 | <5              | <5              | -               |  |  |  | <5                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                      | <1              | -                    | <1                   | <1                 | <1              | <1              | -               |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                        | <2              | -                    | <2                   | <2                 | <2              | <2              | -               |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                          | <1              | -                    | <1                   | <1                 | <1              | <1              | -               |  |  |  | <1                                                           | ug/l  | TM15/PM10  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6046

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

| EMT Sample No.                          | 1-11                | 12-22             | 23-33               | 34-42               | 43-53               | 54-64               | 65-75             |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------------|---------------------|-------------------|---------------------|---------------------|---------------------|---------------------|-------------------|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                               | BH2513              | BH2514            | BH2517              | BH2522              | SW1                 | SW2                 | SW3               |  |  |  |                                                              |       |            |
| Depth                                   | 2.50                | 2.30              | 3.75                | 2.50                |                     |                     |                   |  |  |  |                                                              |       |            |
| COC No / misc                           |                     |                   |                     |                     |                     |                     |                   |  |  |  |                                                              |       |            |
| Containers                              | V H H N N P P F G   | V H H N N P P F G | V H H N N P P F G   | V H H N N P P F G   | V H H N N P P F G   | V H H N N P P F G   | V H H N N P P F G |  |  |  |                                                              |       |            |
| Sample Date                             | 09/04/2024          | 09/04/2024        | 09/04/2024          | 09/04/2024          | 09/04/2024          | 09/04/2024          | 09/04/2024        |  |  |  |                                                              |       |            |
| Sample Type                             | Ground Water        | Ground Water      | Ground Water        | Ground Water        | Surface Water       | Surface Water       | Surface Water     |  |  |  |                                                              |       |            |
| Batch Number                            | 1                   | 1                 | 1                   | 1                   | 1                   | 1                   | 1                 |  |  |  |                                                              |       |            |
| Date of Receipt                         | 10/04/2024          | 10/04/2024        | 10/04/2024          | 10/04/2024          | 10/04/2024          | 10/04/2024          | 10/04/2024        |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Surrogate Recovery Toluene D8           | 89                  | -                 | 96                  | 97                  | 91                  | 97                  | -                 |  |  |  | <0                                                           | %     | TM15/PM10  |
| Surrogate Recovery 4-Bromofluorobenzene | 92                  | -                 | 92                  | 93                  | 89                  | 93                  | -                 |  |  |  | <0                                                           | %     | TM15/PM10  |
| SVOC TICs                               | ND                  | -                 | ND                  | ND                  | ND                  | ND                  | -                 |  |  |  |                                                              | None  | TM16/PM30  |
| Pesticides                              |                     |                   |                     |                     |                     |                     |                   |  |  |  |                                                              |       |            |
| <b>Organochlorine Pesticides</b>        |                     |                   |                     |                     |                     |                     |                   |  |  |  |                                                              |       |            |
| Aldrin                                  | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Alpha-HCH (BHC)                         | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Beta-HCH (BHC)                          | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Delta-HCH (BHC)                         | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Dieldrin                                | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan I                           | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan II                          | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endosulphan sulphate                    | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Endrin                                  | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Gamma-HCH (BHC)                         | 0.02                | -                 | 0.02 <sup>SV</sup>  | 0.04 <sup>SV</sup>  | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Heptachlor                              | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Heptachlor Epoxide                      | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| o,p'-Methoxychlor                       | <0.10 <sup>AE</sup> | -                 | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-DDE                                | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-DDT                                | <0.10 <sup>AE</sup> | -                 | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-Methoxychlor                       | <0.10 <sup>AE</sup> | -                 | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| p,p'-TDE                                | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| <b>Organophosphorus Pesticides</b>      |                     |                   |                     |                     |                     |                     |                   |  |  |  |                                                              |       |            |
| Azinphos methyl                         | <0.10 <sup>AE</sup> | -                 | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | <0.10 <sup>AE</sup> | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Diazinon                                | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Dichlorvos                              | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Disulfoton                              | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Ethion                                  | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Ethyl Parathion (Parathion)             | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Fenitrothion                            | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Malathion                               | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Methyl Parathion                        | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |
| Mevinphos                               | <0.01               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> | <0.01               | <0.01               | -                 |  |  |  | <0.01                                                        | ug/l  | TM149/PM30 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6046

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.                            | 1-11              | 12-22             | 23-33             | 34-42             | 43-53             | 54-64             | 65-75             |  |  |  | Please see attached notes for all abbreviations and acronyms |       |                         |
|-------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|--|--------------------------------------------------------------|-------|-------------------------|
| Sample ID                                 | BH2513            | BH2514            | BH2517            | BH2522            | SW1               | SW2               | SW3               |  |  |  |                                                              |       |                         |
| Depth                                     | 2.50              | 2.30              | 3.75              | 2.50              |                   |                   |                   |  |  |  |                                                              |       |                         |
| COC No / misc                             |                   |                   |                   |                   |                   |                   |                   |  |  |  |                                                              |       |                         |
| Containers                                | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G |  |  |  |                                                              |       |                         |
| Sample Date                               | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        |  |  |  |                                                              |       |                         |
| Sample Type                               | Ground Water      | Ground Water      | Ground Water      | Ground Water      | Surface Water     | Surface Water     | Surface Water     |  |  |  |                                                              |       |                         |
| Batch Number                              | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 |  |  |  |                                                              |       |                         |
| Date of Receipt                           | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        |  |  |  | LOD/LOR                                                      | Units | Method No.              |
| Acid Herbicides                           |                   |                   |                   |                   |                   |                   |                   |  |  |  |                                                              |       |                         |
| Benazolin                                 | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Bentazone                                 | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Bromoxynil                                | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Clopyralid                                | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| 4-CPA                                     | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| 2,4-D                                     | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| 2,4-DB                                    | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Dicamba                                   | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Dichloroprop                              | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Diclofop                                  | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Fenoprop                                  | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Flamprop                                  | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Flamprop-isopropyl                        | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Ioxynil                                   | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| MCPA                                      | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| MCPB                                      | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Mecoprop                                  | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Picloram                                  | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Pentachlorophenol                         | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| 2,4,5-T                                   | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| 2,3,6-TBA                                 | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| Triclopyr                                 | <0.1              | -                 | <0.1              | <0.1              | <0.1              | <0.1              | -                 |  |  |  | <0.1                                                         | ug/l  | TM42/PM30               |
| MTBE #                                    | -                 | <5                | -                 | -                 | -                 | -                 | <5                |  |  |  | <5                                                           | ug/l  | TM36/PM12               |
| Benzene #                                 | -                 | <5                | -                 | -                 | -                 | -                 | <5                |  |  |  | <5                                                           | ug/l  | TM36/PM12               |
| Toluene #                                 | -                 | <5                | -                 | -                 | -                 | -                 | <5                |  |  |  | <5                                                           | ug/l  | TM36/PM12               |
| Ethylbenzene #                            | -                 | <5                | -                 | -                 | -                 | -                 | <5                |  |  |  | <5                                                           | ug/l  | TM36/PM12               |
| m/p-Xylene #                              | -                 | <5                | -                 | -                 | -                 | -                 | <5                |  |  |  | <5                                                           | ug/l  | TM36/PM12               |
| o-Xylene #                                | -                 | <5                | -                 | -                 | -                 | -                 | <5                |  |  |  | <5                                                           | ug/l  | TM36/PM12               |
| TPH CWG                                   |                   |                   |                   |                   |                   |                   |                   |  |  |  |                                                              |       |                         |
| Aliphatics                                |                   |                   |                   |                   |                   |                   |                   |  |  |  |                                                              |       |                         |
| >C5-C6 (HS_1D_AL) #                       | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >C6-C8 (HS_1D_AL) #                       | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >C8-C10 (HS_1D_AL) #                      | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >C10-C12 (EH_CU_1D_AL) #                  | <5                | <5                | <5                | <5                | <5                | <5                | <5                |  |  |  | <5                                                           | ug/l  | TM5/PM16/PM30           |
| >C12-C16 (EH_CU_1D_AL) #                  | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| >C16-C21 (EH_CU_1D_AL) #                  | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| >C21-C35 (EH_CU_1D_AL) #                  | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) # | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM12/PM15/PM30 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6046

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.                                              | 1-11              | 12-22             | 23-33             | 34-42             | 43-53             | 54-64             | 65-75             |  |  |  | Please see attached notes for all abbreviations and acronyms |       |               |
|-------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|--|--------------------------------------------------------------|-------|---------------|
| Sample ID                                                   | BH2513            | BH2514            | BH2517            | BH2522            | SW1               | SW2               | SW3               |  |  |  |                                                              |       |               |
| Depth                                                       | 2.50              | 2.30              | 3.75              | 2.50              |                   |                   |                   |  |  |  |                                                              |       |               |
| COC No / misc                                               |                   |                   |                   |                   |                   |                   |                   |  |  |  |                                                              |       |               |
| Containers                                                  | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G |  |  |  |                                                              |       |               |
| Sample Date                                                 | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        |  |  |  |                                                              |       |               |
| Sample Type                                                 | Ground Water      | Ground Water      | Ground Water      | Ground Water      | Surface Water     | Surface Water     | Surface Water     |  |  |  |                                                              |       |               |
| Batch Number                                                | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 | 1                 |  |  |  |                                                              |       |               |
| Date of Receipt                                             | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        |  |  |  | LOD/LOR                                                      | Units | Method No.    |
| TPH CWG                                                     |                   |                   |                   |                   |                   |                   |                   |  |  |  |                                                              |       |               |
| <b>Aromatics</b>                                            |                   |                   |                   |                   |                   |                   |                   |  |  |  |                                                              |       |               |
| >C5-EC7 (HS_1D_AR) #                                        | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC7-EC8 (HS_1D_AR) #                                       | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC8-EC10 (HS_1D_AR) #                                      | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC10-EC12 (EH_CU_1D_AR) #                                  | <5                | <5                | <5                | <5                | <5                | <5                | <5                |  |  |  | <5                                                           | ug/l  | TM5/PM16/PM30 |
| >EC12-EC16 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >EC16-EC21 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >EC21-EC35 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                    | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aliphatics and aromatics(C5-35) (EH_CU+HS_1D_Total) # | <10               | <10               | <10               | <10               | <10               | <10               | <10               |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total Phenols HPLC                                          | <0.15             | <0.15             | <0.15             | <0.15             | <0.15             | <0.15             | <0.15             |  |  |  | <0.15                                                        | mg/l  | TM26/PM0      |
| Sulphate as SO <sub>4</sub> #                               | 179.3             | 187.4             | 146.3             | 159.4             | 45.9              | 40.0              | 37.5              |  |  |  | <0.5                                                         | mg/l  | TM38/PM0      |
| Chloride #                                                  | 13.1              | 33.9              | 130.3             | 58.1              | 46.1              | 45.8              | 45.7              |  |  |  | <0.3                                                         | mg/l  | TM38/PM0      |
| Nitrate as NO <sub>3</sub> #                                | 8.9               | <0.2              | <0.2              | <0.2              | 19.3              | 22.1              | 25.2              |  |  |  | <0.2                                                         | mg/l  | TM38/PM0      |
| Nitrite as NO <sub>2</sub> #                                | 0.05              | <0.02             | <0.02             | <0.02             | 0.06              | 0.07              | 0.10              |  |  |  | <0.02                                                        | mg/l  | TM38/PM0      |
| Ortho Phosphate as PO <sub>4</sub> #                        | <0.06             | 0.30              | 0.14              | 1.51              | 0.52              | 0.57              | 0.59              |  |  |  | <0.06                                                        | mg/l  | TM38/PM0      |
| Total Cyanide #                                             | 0.02              | 0.03              | 0.03              | 0.02              | <0.01             | <0.01             | <0.01             |  |  |  | <0.01                                                        | mg/l  | TM89/PM0      |
| Ammoniacal Nitrogen as N #                                  | 0.72              | 7.86              | 12.96             | 17.97             | 0.04              | 0.04              | 0.05              |  |  |  | <0.03                                                        | mg/l  | TM38/PM0      |
| Hexavalent Chromium                                         | <6                | <6                | <6                | <6                | <6                | <6                | <6                |  |  |  | <6                                                           | ug/l  | TM38/PM0      |
| Total Dissolved Chromium III                                | <6                | <6                | <6                | <6                | <6                | <6                | <6                |  |  |  | <6                                                           | ug/l  | NONE/NONE     |
| Total Alkalinity as CaCO <sub>3</sub> #                     | 592               | 830               | 674               | 842               | 248               | 264               | 262               |  |  |  | <1                                                           | mg/l  | TM75/PM0      |

## Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-002  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/6046

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.  | 1-11                  | 12-22           | 23-33                 | 34-42                 | 43-53                | 54-64                | 65-75           |  |  |  | Please see attached notes for all abbreviations and acronyms |       |             |
|-----------------|-----------------------|-----------------|-----------------------|-----------------------|----------------------|----------------------|-----------------|--|--|--|--------------------------------------------------------------|-------|-------------|
| Sample ID       | BH2513                | BH2514          | BH2517                | BH2522                | SW1                  | SW2                  | SW3             |  |  |  |                                                              |       |             |
| Depth           | 2.50                  | 2.30            | 3.75                  | 2.50                  |                      |                      |                 |  |  |  |                                                              |       |             |
| COC No / misc   |                       |                 |                       |                       |                      |                      |                 |  |  |  |                                                              |       |             |
| Containers      | V H H N P P F G       | V H H N P P F G | V H H N P P F G       | V H H N P P F G       | V H H N P P F G      | V H H N P P F G      | V H H N P P F G |  |  |  |                                                              |       |             |
| Sample Date     | 09/04/2024            | 09/04/2024      | 09/04/2024            | 09/04/2024            | 09/04/2024           | 09/04/2024           | 09/04/2024      |  |  |  |                                                              |       |             |
| Sample Type     | Ground Water          | Ground Water    | Ground Water          | Ground Water          | Surface Water        | Surface Water        | Surface Water   |  |  |  |                                                              |       |             |
| Batch Number    | 1                     | 1               | 1                     | 1                     | 1                    | 1                    | 1               |  |  |  |                                                              |       |             |
| Date of Receipt | 10/04/2024            | 10/04/2024      | 10/04/2024            | 10/04/2024            | 10/04/2024           | 10/04/2024           | 10/04/2024      |  |  |  | LOD/LOR                                                      | Units | Method No.  |
| PFAAS           |                       |                 |                       |                       |                      |                      |                 |  |  |  |                                                              |       |             |
| PFBA #          | 0.009                 | -               | 0.096 <sup>AB</sup>   | 0.069 <sup>AB</sup>   | 0.009                | 0.006                | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeA #         | 0.030 <sup>AB</sup>   | -               | 0.022 <sup>AB</sup>   | 0.017 <sup>AB</sup>   | 0.006                | 0.005                | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxA #         | 0.023 <sup>AB</sup>   | -               | 0.036 <sup>AB</sup>   | 0.029 <sup>AB</sup>   | 0.005                | 0.005                | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpA #         | 0.013                 | -               | 0.017 <sup>AB</sup>   | 0.011 <sup>AB</sup>   | 0.002                | 0.002                | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOA #          | 0.03700               | -               | 0.06160 <sup>AB</sup> | 0.03380 <sup>AB</sup> | 0.00810              | 0.00590              | -               |  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNA #          | 0.002                 | -               | <0.005 <sup>AB</sup>  | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDA #          | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnA #         | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDaA           | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTrDA          | <0.006                | -               | <0.006                | <0.006                | <0.006               | <0.006               | -               |  |  |  | <0.006                                                       | ug/l  | TM135/PM122 |
| PFTeDA          | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxDA          | <0.01                 | -               | <0.01                 | <0.01                 | <0.01                | <0.01                | -               |  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| PFODA           | <0.025                | -               | <0.025                | <0.025                | <0.025               | <0.025               | -               |  |  |  | <0.025                                                       | ug/l  | TM135/PM122 |
| PFBS #          | 0.007                 | -               | 0.024                 | 0.018                 | 0.006                | 0.006                | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeS #         | 0.002                 | -               | 0.009                 | 0.006                 | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxS #         | 0.023                 | -               | 0.067 <sup>AB</sup>   | 0.044 <sup>AB</sup>   | 0.005                | 0.004                | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpS #         | 0.002                 | -               | 0.014                 | 0.001                 | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOS #          | 0.05760 <sup>AB</sup> | -               | 0.02690 <sup>AE</sup> | 0.02910               | 0.00900              | 0.01080              | -               |  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNS            | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDS            | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnDS          | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDaDS          | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTrDS          | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X) | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-TA         | <0.02                 | -               | <0.02                 | <0.02                 | <0.02                | <0.02                | -               |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| DONA #          | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOPrA         | <0.010 <sup>AE</sup>  | -               | <0.010 <sup>AE</sup>  | <0.010 <sup>AE</sup>  | <0.010 <sup>AE</sup> | <0.010 <sup>AE</sup> | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| NFDHA           | <0.001                | -               | <0.001                | <0.005 <sup>AB</sup>  | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOBA          | <0.010 <sup>AE</sup>  | -               | <0.010 <sup>AE</sup>  | <0.010 <sup>AE</sup>  | <0.010 <sup>AE</sup> | <0.010 <sup>AE</sup> | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFECHS          | 0.003                 | -               | 0.118 <sup>AB</sup>   | 0.026 <sup>AB</sup>   | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 3:3 FTCA        | <0.02                 | -               | <0.02                 | <0.02                 | <0.02                | <0.02                | -               |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| 5:3 FTCA        | <0.01                 | -               | <0.01                 | <0.01                 | <0.01                | <0.01                | -               |  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| 7:3 FTCA        | <0.02                 | -               | <0.02                 | <0.02                 | <0.02                | <0.02                | -               |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| PFEESA          | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 9Cl-PF3ONS #    | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 11Cl-PF3OUdS    | <0.001                | -               | <0.001                | <0.001                | <0.001               | <0.001               | -               |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 4:2 FTS         | <0.005                | -               | <0.005                | <0.005                | <0.005               | <0.005               | -               |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| 6:2 FTS         | <0.005                | -               | <0.005                | <0.005                | <0.005               | <0.005               | -               |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| 8:2 FTS         | <0.005                | -               | <0.005                | <0.005                | <0.005               | <0.005               | -               |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| FBSA            | <0.02                 | -               | <0.02                 | <0.02                 | <0.02                | <0.02                | -               |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| FHxSA           | <0.02                 | -               | <0.02                 | <0.02                 | <0.02                | <0.02                | -               |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| FOSA            | <0.005                | -               | <0.005                | <0.005                | <0.005               | <0.005               | -               |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| N-MeFOSA        | <0.005                | -               | <0.005                | <0.005                | <0.005               | <0.005               | -               |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6046

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

[illegible]

SVOC Report : Liquid

Please include all sections of this report if it is reproduced

QF-PM 3.1.3 v11 All solid results are expressed on a dry weight basis unless stated otherwise. 8 of 17

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6046

**VOC Report :** Liquid

| EMT Sample No.                          | 1-11              | 23-33             | 34-42             | 43-53             | 54-64             |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                               | BH2513            | BH2517            | BH2522            | SW1               | SW2               |  |  |  |  |  |                                                              |       |            |
| Depth                                   | 2.50              | 3.75              | 2.50              |                   |                   |  |  |  |  |  |                                                              |       |            |
| COC No / misc                           |                   |                   |                   |                   |                   |  |  |  |  |  |                                                              |       |            |
| Containers                              | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G |  |  |  |  |  |                                                              |       |            |
| Sample Date                             | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        | 09/04/2024        |  |  |  |  |  |                                                              |       |            |
| Sample Type                             | Ground Water      | Ground Water      | Ground Water      | Surface Water     | Surface Water     |  |  |  |  |  |                                                              |       |            |
| Batch Number                            | 1                 | 1                 | 1                 | 1                 | 1                 |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Date of Receipt                         | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        | 10/04/2024        |  |  |  |  |  |                                                              |       |            |
| VOC MS                                  |                   |                   |                   |                   |                   |  |  |  |  |  |                                                              |       |            |
| Dichlorodifluoromethane                 | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #           | <0.1              | <0.1              | <0.1              | <0.1              | <0.1              |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Chloromethane #                         | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Vinyl Chloride #                        | <0.1              | <0.1              | <0.1              | <0.1              | <0.1              |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Bromomethane                            | <1                | <1                | <1                | <1                | <1                |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Chloroethane #                          | <3                | 5                 | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Trichlorofluoromethane #                | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloroethene (1,1 DCE) #          | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Dichloromethane (DCM) #                 | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| trans-1-2-Dichloroethene #              | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloroethane #                    | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| cis-1-2-Dichloroethene #                | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 2,2-Dichloropropane                     | <1                | <1                | <1                | <1                | <1                |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Bromochloromethane #                    | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Chloroform #                            | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,1-Trichloroethane #                 | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloropropene #                   | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Carbon tetrachloride #                  | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichloroethane #                    | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Benzene #                               | <0.5              | <0.5              | <0.5              | <0.5              | <0.5              |  |  |  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Trichloroethene (TCE) #                 | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichloropropane #                   | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Dibromomethane #                        | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Bromodichloromethane #                  | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| cis-1-3-Dichloropropene                 | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Toluene #                               | <5                | <5                | <5                | <5                | <5                |  |  |  |  |  | <5                                                           | ug/l  | TM15/PM10  |
| trans-1-3-Dichloropropene               | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,2-Trichloroethane #                 | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Tetrachloroethene (PCE) #               | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3-Dichloropropane #                   | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Dibromochloromethane #                  | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2-Dibromoethane #                     | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Chlorobenzene #                         | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,1,2-Tetrachloroethane #             | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                          | <1                | <1                | <1                | <1                | <1                |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                            | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                              | <1                | <1                | <1                | <1                | <1                |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Styrene                                 | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Bromoform #                             | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Isopropylbenzene #                      | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1,2,2-Tetrachloroethane               | <4                | <4                | <4                | <4                | <4                |  |  |  |  |  | <4                                                           | ug/l  | TM15/PM10  |
| Bromobenzene #                          | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,3-Trichloropropane #                | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Propylbenzene #                         | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 2-Chlorotoluene #                       | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3,5-Trimethylbenzene #                | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 4-Chlorotoluene #                       | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| tert-Butylbenzene #                     | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2,4-Trimethylbenzene #                | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| sec-Butylbenzene #                      | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 4-Isopropyltoluene #                    | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3-Dichlorobenzene #                   | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,4-Dichlorobenzene #                   | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| n-Butylbenzene #                        | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichlorobenzene #                   | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dibromo-3-chloropropane             | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,4-Trichlorobenzene                  | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Hexachlorobutadiene                     | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Naphthalene                             | <2                | <2                | <2                | <2                | <2                |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,3-Trichlorobenzene                  | <3                | <3                | <3                | <3                | <3                |  |  |  |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8           | 89                | 96                | 97                | 91                | 97                |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |
| Surrogate Recovery 4-Bromofluorobenzene | 92                | 92                | 93                | 89                | 93                |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |



## Element Materials Technology

### Notification of Deviating Samples

|                     |                |
|---------------------|----------------|
| <b>Client Name:</b> | Ramboll        |
| <b>Reference:</b>   | 1620016166-002 |
| <b>Location:</b>    | Manor Farm     |
| <b>Contact:</b>     | Eleanor Brown  |

**Matrix : Liquid**

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/6046

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x2 Dilution                                                                                                                                                              |
| AB      | x5 Dilution                                                                                                                                                              |
| AC      | x6 Dilution                                                                                                                                                              |
| AD      | x8 Dilution                                                                                                                                                              |
| AE      | x10 Dilution                                                                                                                                                             |

# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/6046

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                         | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.                                                                                                                  | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.  | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                                                                                                                                     | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                              | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                   | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                   | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                       | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                       | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                                                                                                                                  | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/6046

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                      | Prep Method No. (if appropriate) | Description                                                                                              | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested. | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis. | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                           | PM0                              | No preparation is required.                                                                              |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                           | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM42            | Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS                                                                                                                                                                                                                                                         | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                    |                       |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                               | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                  | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.                                                                                                     | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                                                                                                                        | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                                                                                                                        | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                                                                                                                                           | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/6046

| Test Method No. | Description                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                           | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                                                                     |                         |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                           | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                                                                     | Yes                     |                        |                                                 |                              |
| TM149           | Determination of Pesticides by Large Volume Injection on GC Triple Quad MS, based upon USEPA method 8270D v5:2014                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                         |                        |                                                 |                              |
| TM170           | Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                     |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                           | PM0                              | No preparation is required.                                                                                                                                        |                         |                        |                                                 |                              |
| NONE            | No Method Code                                                                                                                                                                                                     | NONE                             | No Method Code                                                                                                                                                     |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |





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W: [www.element.com](http://www.element.com)

Ramboll  
240 Blackfriars Road  
London  
United Kingdom  
SE1 8NW



**Attention :** Eleanor Brown  
**Date :** 29th April, 2024  
**Your reference :** 1620016166-002  
**Our reference :** Test Report 24/6046 Batch 1 Schedule B  
**Location :** Manor Farm  
**Date samples received :** 10th April, 2024  
**Status :** Final Report  
**Issue :** 202404291420

Seven samples were received for analysis on 10th April, 2024 of which five were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 0.724 kg of CO2

Scope 1&2&3 emissions - 1.711 kg of CO2

**Authorised By:**

**Paul Boden BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6046

Report : Liquid

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

[illegible]

## Element Materials Technology

### Notification of Deviating Samples

|                     |                |
|---------------------|----------------|
| <b>Client Name:</b> | Ramboll        |
| <b>Reference:</b>   | 1620016166-002 |
| <b>Location:</b>    | Manor Farm     |
| <b>Contact:</b>     | Eleanor Brown  |

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/6046

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x5 Dilution                                                                                                                                                              |
| AB      | x11 Dilution                                                                                                                                                             |

# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |

EMT Job No: 24/6046

| Test Method No. | Description                                                              | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------|----------------------------------|-------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| Subcontracted   | See attached subcontractor report for accreditation status and provider. |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
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Element Materials Technology  
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Ramboll  
240 Blackfriars Road  
London  
United Kingdom  
SE1 8NW



4225



**Attention :** Eleanor Brown  
**Date :** 26th April, 2024  
**Your reference :** 1620016166-002  
**Our reference :** Test Report 24/6146 Batch 1 Schedule A  
**Location :** Manor Farm  
**Date samples received :** 11th April, 2024  
**Status :** Final Report  
**Issue :** 202404261118

Three samples were received for analysis on 11th April, 2024 of which three were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 11.801 kg of CO2

Scope 1&2&3 emissions - 27.889 kg of CO2

**Authorised By:**

**Simon Gomery BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6146

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                      | 1-9               | 10-18             | 19-27             |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-------------------------------------|-------------------|-------------------|-------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                           | BH2520            | BH2518            | BH2516            |  |  |  |  |  |  |  |                                                              |       |            |
| Depth                               | 2.00              | 0.75              | 3.30              |  |  |  |  |  |  |  |                                                              |       |            |
| COC No / misc                       |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |            |
| Containers                          | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G |  |  |  |  |  |  |  |                                                              |       |            |
| Sample Date                         | 10/04/2024        | 10/04/2024        | 10/04/2024        |  |  |  |  |  |  |  |                                                              |       |            |
| Sample Type                         | Ground Water      | Ground Water      | Ground Water      |  |  |  |  |  |  |  |                                                              |       |            |
| Batch Number                        | 1                 | 1                 | 1                 |  |  |  |  |  |  |  |                                                              |       |            |
| Date of Receipt                     | 11/04/2024        | 11/04/2024        | 11/04/2024        |  |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Dissolved Arsenic #                 | 3.0               | 3.3               | 1.4               |  |  |  |  |  |  |  | <0.9                                                         | ug/l  | TM170/PM14 |
| Dissolved Beryllium #               | <0.5              | <0.5              | <0.5              |  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Boron #                   | 122               | 107               | 128               |  |  |  |  |  |  |  | <12                                                          | ug/l  | TM170/PM14 |
| Dissolved Cadmium #                 | 0.04              | <0.03             | 0.03              |  |  |  |  |  |  |  | <0.03                                                        | ug/l  | TM170/PM14 |
| Total Dissolved Chromium #          | 0.3               | 0.6               | 0.2               |  |  |  |  |  |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Copper #                  | 4                 | <1                | 2                 |  |  |  |  |  |  |  | <1                                                           | ug/l  | TM170/PM14 |
| Total Dissolved Iron #              | 48.7              | 177.0             | 12.7              |  |  |  |  |  |  |  | <4.7                                                         | ug/l  | TM170/PM14 |
| Dissolved Lead #                    | 0.8               | <0.4              | <0.4              |  |  |  |  |  |  |  | <0.4                                                         | ug/l  | TM170/PM14 |
| Dissolved Mercury #                 | <0.5              | <0.5              | <0.5              |  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Nickel #                  | 6.1               | 2.2               | 3.1               |  |  |  |  |  |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Selenium #                | <1.2              | <1.2              | <1.2              |  |  |  |  |  |  |  | <1.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Vanadium #                | 4.6               | 5.5               | 3.3               |  |  |  |  |  |  |  | <0.6                                                         | ug/l  | TM170/PM14 |
| Dissolved Zinc #                    | 19.5              | 3.8               | 4.5               |  |  |  |  |  |  |  | <1.5                                                         | ug/l  | TM170/PM14 |
| Total Hardness Dissolved (as CaCO3) | 289               | 214               | 352               |  |  |  |  |  |  |  | <1                                                           | mg/l  | TM30/PM14  |
| PAH MS                              |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |            |
| Naphthalene #                       | <0.1              | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene #                    | 0.044             | 0.007             | 0.010             |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene #                      | 0.022             | 0.007             | 0.258             |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene #                          | 0.006             | <0.005            | 0.048             |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene #                      | 0.054             | <0.005            | <0.005            |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene #                        | 0.078             | 0.031             | 0.006             |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene #                      | 0.267             | <0.005            | 0.017             |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene #                            | 0.292             | <0.005            | 0.010             |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                | 0.167             | <0.005            | <0.005            |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene #                          | 0.202             | <0.005            | <0.005            |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene #              | 0.574             | <0.008            | <0.008            |  |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                    | 0.328             | <0.005            | <0.005            |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #               | 0.276             | <0.005            | <0.005            |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #             | 0.056             | <0.005            | <0.005            |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                | 0.278             | <0.005            | <0.005            |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total #                      | 2.644             | <0.173            | 0.349             |  |  |  |  |  |  |  | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                | 0.413             | <0.008            | <0.008            |  |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                | 0.161             | <0.008            | <0.008            |  |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery            | 90                | 105               | 80                |  |  |  |  |  |  |  | <0                                                           | %     | TM4/PM30   |
| VOC TICs                            | -                 | ND                | ND                |  |  |  |  |  |  |  |                                                              | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #       | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Benzene #                           | -                 | <0.5              | <0.5              |  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Toluene #                           | -                 | <5                | <5                |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                      | -                 | <1                | <1                |  |  |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                        | -                 | <2                | <2                |  |  |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                          | -                 | <1                | <1                |  |  |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6146

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

| EMT Sample No.                          | 1-9               | 10-18               | 19-27               |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |         |            |            |
|-----------------------------------------|-------------------|---------------------|---------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|---------|------------|------------|
| Sample ID                               | BH2520            | BH2518              | BH2516              |  |  |  |  |  |  |  |                                                              |         |            |            |
| Depth                                   | 2.00              | 0.75                | 3.30                |  |  |  |  |  |  |  |                                                              |         |            |            |
| COC No / misc                           |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |
| Containers                              | V H H N N P P F G | V H H N N P P F G   | V H H N N P P F G   |  |  |  |  |  |  |  |                                                              |         |            |            |
| Sample Date                             | 10/04/2024        | 10/04/2024          | 10/04/2024          |  |  |  |  |  |  |  |                                                              |         |            |            |
| Sample Type                             | Ground Water      | Ground Water        | Ground Water        |  |  |  |  |  |  |  |                                                              |         |            |            |
| Batch Number                            | 1                 | 1                   | 1                   |  |  |  |  |  |  |  |                                                              |         |            |            |
| Date of Receipt                         | 11/04/2024        | 11/04/2024          | 11/04/2024          |  |  |  |  |  |  |  |                                                              | LOD/LOR | Units      | Method No. |
| Surrogate Recovery Toluene D8           | -                 | 95                  | 101                 |  |  |  |  |  |  |  | <0                                                           | %       | TM15/PM10  |            |
| Surrogate Recovery 4-Bromofluorobenzene | -                 | 94                  | 96                  |  |  |  |  |  |  |  | <0                                                           | %       | TM15/PM10  |            |
| SVOC TICs                               | -                 | ND                  | ND                  |  |  |  |  |  |  |  |                                                              | None    | TM16/PM30  |            |
| Pesticides                              |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |
| Organochlorine Pesticides               |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |
| Aldrin                                  | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Alpha-HCH (BHC)                         | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Beta-HCH (BHC)                          | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Delta-HCH (BHC)                         | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Dieldrin                                | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Endosulphan I                           | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Endosulphan II                          | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Endosulphan sulphate                    | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Endrin                                  | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Gamma-HCH (BHC)                         | -                 | <0.01 <sup>SV</sup> | 0.02 <sup>SV</sup>  |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Heptachlor                              | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Heptachlor Epoxide                      | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| o,p'-Methoxychlor                       | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| p,p'-DDE                                | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| p,p'-DDT                                | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| p,p'-Methoxychlor                       | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| p,p'-TDE                                | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Organophosphorus Pesticides             |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |
| Azinphos methyl                         | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Diazinon                                | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Dichlorvos                              | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Disulfoton                              | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Ethion                                  | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Ethyl Parathion (Parathion)             | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Fenitrothion                            | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Malathion                               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Methyl Parathion                        | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
| Mevinphos                               | -                 | <0.01 <sup>SV</sup> | <0.01 <sup>SV</sup> |  |  |  |  |  |  |  | <0.01                                                        | ug/l    | TM149/PM30 |            |
|                                         |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |
|                                         |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |
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|                                         |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |
|                                         |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |
|                                         |                   |                     |                     |  |  |  |  |  |  |  |                                                              |         |            |            |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6146

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                            | 1-9               | 10-18             | 19-27             |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |                    |
|-------------------------------------------|-------------------|-------------------|-------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|-------|--------------------|
| Sample ID                                 | BH2520            | BH2518            | BH2516            |  |  |  |  |  |  |  |                                                              |       |                    |
| Depth                                     | 2.00              | 0.75              | 3.30              |  |  |  |  |  |  |  |                                                              |       |                    |
| COC No / misc                             |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |                    |
| Containers                                | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G |  |  |  |  |  |  |  |                                                              |       |                    |
| Sample Date                               | 10/04/2024        | 10/04/2024        | 10/04/2024        |  |  |  |  |  |  |  |                                                              |       |                    |
| Sample Type                               | Ground Water      | Ground Water      | Ground Water      |  |  |  |  |  |  |  |                                                              |       |                    |
| Batch Number                              | 1                 | 1                 | 1                 |  |  |  |  |  |  |  |                                                              |       |                    |
| Date of Receipt                           | 11/04/2024        | 11/04/2024        | 11/04/2024        |  |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.         |
| Acid Herbicides                           |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |                    |
| Benazolin                                 | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Bentazone                                 | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Bromoxynil                                | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Clopyralid                                | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| 4-CPA                                     | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| 2,4-D                                     | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| 2,4-DB                                    | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Dicamba                                   | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Dichloroprop                              | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Diclofop                                  | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Fenoprop                                  | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Flamprop                                  | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Flamprop-isopropyl                        | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Ioxynil                                   | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| MCPA                                      | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| MCPB                                      | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Mecoprop                                  | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Picloram                                  | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Pentachlorophenol                         | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| 2,4,5-T                                   | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| 2,3,6-TBA                                 | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| Triclopyr                                 | -                 | <0.1              | <0.1              |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM42/PM30          |
| MTBE #                                    | <5                | -                 | -                 |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12          |
| Benzene #                                 | <5                | -                 | -                 |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12          |
| Toluene #                                 | <5                | -                 | -                 |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12          |
| Ethylbenzene #                            | <5                | -                 | -                 |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12          |
| m/p-Xylene #                              | <5                | -                 | -                 |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12          |
| o-Xylene #                                | <5                | -                 | -                 |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12          |
| TPH CWG                                   |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |                    |
| Aliphatics                                |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |                    |
| >C5-C6 (HS_1D_AL) #                       | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12          |
| >C6-C8 (HS_1D_AL) #                       | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12          |
| >C8-C10 (HS_1D_AL) #                      | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12          |
| >C10-C12 (EH_CU_1D_AL) #                  | <5                | <5                | <5                |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM5/PM16/PM30      |
| >C12-C16 (EH_CU_1D_AL) #                  | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30      |
| >C16-C21 (EH_CU_1D_AL) #                  | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30      |
| >C21-C35 (EH_CU_1D_AL) #                  | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30      |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) # | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30/PM30 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6146

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.                                              | 1-9               | 10-18             | 19-27             |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |               |
|-------------------------------------------------------------|-------------------|-------------------|-------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|-------|---------------|
| Sample ID                                                   | BH2520            | BH2518            | BH2516            |  |  |  |  |  |  |  |                                                              |       |               |
| Depth                                                       | 2.00              | 0.75              | 3.30              |  |  |  |  |  |  |  |                                                              |       |               |
| COC No / misc                                               |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |               |
| Containers                                                  | V H H N N P P F G | V H H N N P P F G | V H H N N P P F G |  |  |  |  |  |  |  |                                                              |       |               |
| Sample Date                                                 | 10/04/2024        | 10/04/2024        | 10/04/2024        |  |  |  |  |  |  |  |                                                              |       |               |
| Sample Type                                                 | Ground Water      | Ground Water      | Ground Water      |  |  |  |  |  |  |  |                                                              |       |               |
| Batch Number                                                | 1                 | 1                 | 1                 |  |  |  |  |  |  |  |                                                              |       |               |
| Date of Receipt                                             | 11/04/2024        | 11/04/2024        | 11/04/2024        |  |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.    |
| TPH CWG                                                     |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |               |
| <b>Aromatics</b>                                            |                   |                   |                   |  |  |  |  |  |  |  |                                                              |       |               |
| >C5-EC7 (HS_1D_AR) #                                        | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC7-EC8 (HS_1D_AR) #                                       | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC8-EC10 (HS_1D_AR) #                                      | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12     |
| >EC10-EC12 (EH_CU_1D_AR) #                                  | <5                | <5                | <5                |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM5/PM16/PM30 |
| >EC12-EC16 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >EC16-EC21 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >EC21-EC35 (EH_CU_1D_AR) #                                  | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                    | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aliphatics and aromatics(C5-35) (EH_CU+HS_1D_Total) # | <10               | <10               | <10               |  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total Phenols HPLC                                          | <0.15             | <0.15             | <0.15             |  |  |  |  |  |  |  | <0.15                                                        | mg/l  | TM26/PM0      |
| Sulphate as SO <sub>4</sub> #                               | 77.9              | 89.8              | 95.6              |  |  |  |  |  |  |  | <0.5                                                         | mg/l  | TM38/PM0      |
| Chloride #                                                  | 25.3              | 22.0              | 45.9              |  |  |  |  |  |  |  | <0.3                                                         | mg/l  | TM38/PM0      |
| Nitrate as NO <sub>3</sub> #                                | 0.5               | 0.4               | 16.2              |  |  |  |  |  |  |  | <0.2                                                         | mg/l  | TM38/PM0      |
| Nitrite as NO <sub>2</sub> #                                | <0.02             | 0.70              | 0.25              |  |  |  |  |  |  |  | <0.02                                                        | mg/l  | TM38/PM0      |
| Ortho Phosphate as PO <sub>4</sub> #                        | 0.13              | 0.08              | 0.63              |  |  |  |  |  |  |  | <0.06                                                        | mg/l  | TM38/PM0      |
| Total Cyanide #                                             | 0.03              | 0.02              | <0.01             |  |  |  |  |  |  |  | <0.01                                                        | mg/l  | TM89/PM0      |
| Ammoniacal Nitrogen as N #                                  | 0.10              | 1.72              | 0.41              |  |  |  |  |  |  |  | <0.03                                                        | mg/l  | TM38/PM0      |
| Hexavalent Chromium                                         | <6                | <6                | <6                |  |  |  |  |  |  |  | <6                                                           | ug/l  | TM38/PM0      |
| Total Dissolved Chromium III                                | <6                | <6                | <6                |  |  |  |  |  |  |  | <6                                                           | ug/l  | NONE/NONE     |
| Total Alkalinity as CaCO <sub>3</sub> #                     | 266               | 162               | 298               |  |  |  |  |  |  |  | <1                                                           | mg/l  | TM75/PM0      |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6146

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.  | 1-9               | 10-18                 | 19-27                 |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |             |
|-----------------|-------------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--------------------------------------------------------------|-------|-------------|
| Sample ID       | BH2520            | BH2518                | BH2516                |  |  |  |  |  |  |  |                                                              |       |             |
| Depth           | 2.00              | 0.75                  | 3.30                  |  |  |  |  |  |  |  |                                                              |       |             |
| COC No / misc   |                   |                       |                       |  |  |  |  |  |  |  |                                                              |       |             |
| Containers      | V H H N N P P F G | V H H N N P P F G     | V H H N N P P F G     |  |  |  |  |  |  |  |                                                              |       |             |
| Sample Date     | 10/04/2024        | 10/04/2024            | 10/04/2024            |  |  |  |  |  |  |  |                                                              |       |             |
| Sample Type     | Ground Water      | Ground Water          | Ground Water          |  |  |  |  |  |  |  |                                                              |       |             |
| Batch Number    | 1                 | 1                     | 1                     |  |  |  |  |  |  |  |                                                              |       |             |
| Date of Receipt | 11/04/2024        | 11/04/2024            | 11/04/2024            |  |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.  |
| PFAAS           |                   |                       |                       |  |  |  |  |  |  |  |                                                              |       |             |
| PFBA #          | -                 | <0.010 <sub>AD</sub>  | 0.009 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeA #         | -                 | <0.010 <sub>AD</sub>  | 0.013 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxA #         | -                 | 0.021 <sub>AD</sub>   | 0.012 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpA #         | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOA #          | -                 | 0.02510 <sub>AD</sub> | 0.01590 <sub>AC</sub> |  |  |  |  |  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNA #          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDA #          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnA #         | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDoA           | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTTrDA         | -                 | <0.060 <sub>AD</sub>  | <0.030 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.006                                                       | ug/l  | TM135/PM122 |
| PFTeDA          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxDA          | -                 | <0.10 <sub>AD</sub>   | <0.05 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| PFODA           | -                 | <0.250 <sub>AD</sub>  | <0.125 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.025                                                       | ug/l  | TM135/PM122 |
| PFBS #          | -                 | 0.033 <sub>AD</sub>   | 0.008 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeS #         | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxS #         | -                 | 0.014 <sub>AD</sub>   | 0.012 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpS #         | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOS #          | -                 | 0.05980 <sub>AD</sub> | 0.01840 <sub>AC</sub> |  |  |  |  |  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNS            | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDS            | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnDS          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDoDS          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTTrDS         | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X) | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-TA         | -                 | <0.20 <sub>AD</sub>   | <0.10 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| DONA #          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOPrA         | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| NFDHA           | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOBA          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFECHS          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 3:3 FTCA        | -                 | <0.20 <sub>AD</sub>   | <0.10 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| 5:3 FTCA        | -                 | <0.10 <sub>AD</sub>   | <0.05 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| 7:3 FTCA        | -                 | <0.20 <sub>AD</sub>   | <0.10 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| PFEESA          | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 9Cl-PF3ONS #    | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 11Cl-PF3OUdS    | -                 | <0.010 <sub>AD</sub>  | <0.005 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 4:2 FTS         | -                 | <0.050 <sub>AD</sub>  | <0.025 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| 6:2 FTS         | -                 | <0.050 <sub>AD</sub>  | <0.025 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| 8:2 FTS         | -                 | <0.050 <sub>AD</sub>  | <0.025 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| FBSA            | -                 | <0.20 <sub>AD</sub>   | <0.10 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| FHxSA           | -                 | <0.20 <sub>AD</sub>   | <0.10 <sub>AC</sub>   |  |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| FOSA            | -                 | <0.050 <sub>AD</sub>  | <0.025 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| N-MeFOSA        | -                 | <0.050 <sub>AD</sub>  | <0.025 <sub>AC</sub>  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6146

Report : Liquid

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

[illegible]

SVOC Report : Liquid

Please see attached notes for all abbreviations and acronyms



## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6146

**VOC Report :** Liquid

| EMT Sample No.                          | 10-18             | 19-27             |            |  |  |  |  |  |  |      |      |           |
|-----------------------------------------|-------------------|-------------------|------------|--|--|--|--|--|--|------|------|-----------|
| Sample ID                               | BH2518            | BH2516            |            |  |  |  |  |  |  |      |      |           |
| Depth                                   | 0.75              | 3.30              |            |  |  |  |  |  |  |      |      |           |
| COC No / misc                           |                   |                   |            |  |  |  |  |  |  |      |      |           |
| Containers                              | V H H N N P P F G | V H H N N P P F G |            |  |  |  |  |  |  |      |      |           |
| Sample Date                             | 10/04/2024        | 10/04/2024        |            |  |  |  |  |  |  |      |      |           |
| Sample Type                             | Ground Water      | Ground Water      |            |  |  |  |  |  |  |      |      |           |
| Batch Number                            | 1                 | 1                 |            |  |  |  |  |  |  |      |      |           |
| Date of Receipt                         | 11/04/2024        | 11/04/2024        |            |  |  |  |  |  |  |      |      |           |
|                                         | LOD/LOR           | Units             | Method No. |  |  |  |  |  |  |      |      |           |
| VOC MS                                  |                   |                   |            |  |  |  |  |  |  |      |      |           |
| Dichlorodifluoromethane                 | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Methyl Tertiary Butyl Ether #           | <0.1              | <0.1              |            |  |  |  |  |  |  | <0.1 | ug/l | TM15/PM10 |
| Chloromethane #                         | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Vinyl Chloride #                        | <0.1              | <0.1              |            |  |  |  |  |  |  | <0.1 | ug/l | TM15/PM10 |
| Bromomethane                            | <1                | <1                |            |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Chloroethane #                          | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Trichlorofluoromethane #                | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1-Dichloroethene (1,1 DCE) #          | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Dichloromethane (DCM) #                 | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| trans-1-2-Dichloroethene #              | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1-Dichloroethane #                    | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| cis-1-2-Dichloroethene #                | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 2,2-Dichloropropane                     | <1                | <1                |            |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Bromochloromethane #                    | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Chloroform #                            | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,1-Trichloroethane #                 | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1-Dichloropropene #                   | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Carbon tetrachloride #                  | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2-Dichloroethane #                    | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Benzene #                               | <0.5              | <0.5              |            |  |  |  |  |  |  | <0.5 | ug/l | TM15/PM10 |
| Trichloroethene (TCE) #                 | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dichloropropane #                   | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Dibromomethane #                        | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Bromodichloromethane #                  | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| cis-1-3-Dichloropropene                 | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Toluene #                               | <5                | <5                |            |  |  |  |  |  |  | <5   | ug/l | TM15/PM10 |
| trans-1-3-Dichloropropene               | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,2-Trichloroethane #                 | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Tetrachloroethene (PCE) #               | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3-Dichloropropane #                   | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Dibromochloromethane #                  | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2-Dibromoethane #                     | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Chlorobenzene #                         | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,1,2-Tetrachloroethane #             | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Ethylbenzene #                          | <1                | <1                |            |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| m/p-Xylene #                            | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| o-Xylene #                              | <1                | <1                |            |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Styrene                                 | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Bromoform #                             | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Isopropylbenzene #                      | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1,2,2-Tetrachloroethane               | <4                | <4                |            |  |  |  |  |  |  | <4   | ug/l | TM15/PM10 |
| Bromobenzene #                          | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,3-Trichloropropane #                | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Propylbenzene #                         | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 2-Chlorotoluene #                       | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3,5-Trimethylbenzene #                | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 4-Chlorotoluene #                       | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| tert-Butylbenzene #                     | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2,4-Trimethylbenzene #                | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| sec-Butylbenzene #                      | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 4-Isopropyltoluene #                    | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3-Dichlorobenzene #                   | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,4-Dichlorobenzene #                   | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| n-Butylbenzene #                        | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dichlorobenzene #                   | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dibromo-3-chloropropane             | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,4-Trichlorobenzene                  | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Hexachlorobutadiene                     | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Naphthalene                             | <2                | <2                |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,3-Trichlorobenzene                  | <3                | <3                |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Surrogate Recovery Toluene D8           | 95                | 101               |            |  |  |  |  |  |  | <0   | %    | TM15/PM10 |
| Surrogate Recovery 4-Bromofluorobenzene | 94                | 96                |            |  |  |  |  |  |  | <0   | %    | TM15/PM10 |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

### Notification of Deviating Samples

|                     |                |
|---------------------|----------------|
| <b>Client Name:</b> | Ramboll        |
| <b>Reference:</b>   | 1620016166-002 |
| <b>Location:</b>    | Manor Farm     |
| <b>Contact:</b>     | Eleanor Brown  |

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/6146

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x2 Dilution                                                                                                                                                              |
| AB      | x3 Dilution                                                                                                                                                              |
| AC      | x5 Dilution                                                                                                                                                              |
| AD      | x10 Dilution                                                                                                                                                             |

# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/6146

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                         | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.                                                                                                                  | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.  | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                                                                                                                                     | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                              | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                   | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                   | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                       | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                       | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                                                                                                                                  | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/6146

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                      | Prep Method No. (if appropriate) | Description                                                                                              | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested. | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis. | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                           | PM0                              | No preparation is required.                                                                              |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                           | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM42            | Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS                                                                                                                                                                                                                                                         | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                    |                       |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                               | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                  | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.                                                                                                     | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                                                                                                                        | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                                                                                                                        | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                                                                                                                                           | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |



## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/6146

| Test Method No. | Description                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                           | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                                                                     |                         |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                           | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                                                                     | Yes                     |                        |                                                 |                              |
| TM149           | Determination of Pesticides by Large Volume Injection on GC Triple Quad MS, based upon USEPA method 8270D v5:2014                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                         |                        |                                                 |                              |
| TM170           | Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                     |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                           | PM0                              | No preparation is required.                                                                                                                                        |                         |                        |                                                 |                              |
| NONE            | No Method Code                                                                                                                                                                                                     | NONE                             | No Method Code                                                                                                                                                     |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |



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Ramboll  
240 Blackfriars Road  
London  
United Kingdom  
SE1 8NW



**Attention :** Eleanor Brown  
**Date :** 1st May, 2024  
**Your reference :** 1620016166-002  
**Our reference :** Test Report 24/6146 Batch 1 Schedule B  
**Location :** Manor Farm  
**Date samples received :** 11th April, 2024  
**Status :** Final Report  
**Issue :** 202405011430

Three samples were received for analysis on 11th April, 2024 of which two were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 0.29 kg of CO2

Scope 1&2&3 emissions - 0.684 kg of CO2

**Authorised By:**

**Simon Gomery BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-002  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/6146

Report : Liquid

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

[illegible]

## Element Materials Technology

### Notification of Deviating Samples

|                     |                |
|---------------------|----------------|
| <b>Client Name:</b> | Ramboll        |
| <b>Reference:</b>   | 1620016166-002 |
| <b>Location:</b>    | Manor Farm     |
| <b>Contact:</b>     | Eleanor Brown  |

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/6146

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x8 Dilution                                                                                                                                                              |

# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |



Element Materials Technology

Method Code Appendix

EMT Job No: 24/6146

| Test Method No. | Description                                                              | Prep Method No. (if appropriate) | Description | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------|----------------------------------|-------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| Subcontracted   | See attached subcontractor report for accreditation status and provider. |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |
|                 |                                                                          |                                  |             |                         |                        |                                                 |                              |



SBC PLANNING  
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Website: www.alsenvironmental.co.uk

Element Materials Technology  
Unit 3 Deeside Point  
Zone 3 Deeside Industrial Park  
Deeside  
CH5 2UA

**Attention:** Project Managers

## CERTIFICATE OF ANALYSIS

|                                     |                              |
|-------------------------------------|------------------------------|
| <b>Date of report Generation:</b>   | 29 April 2024                |
| <b>Customer:</b>                    | Element Materials Technology |
| <b>Sample Delivery Group (SDG):</b> | 240412-53                    |
| <b>Your Reference:</b>              | 24/6076 24/6046              |
| <b>Location:</b>                    | Not Specified                |
| <b>Report No:</b>                   | 727208                       |
| <b>Order Number:</b>                | GB05104934PO                 |

We received 9 samples on Friday April 12, 2024 and 9 of these samples were scheduled for analysis which was completed on Monday April 29, 2024. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

**Sonia McWhan**

Operations Manager



# CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED - 17/12/2024  
Validated

SDG: 240412-53  
Client Ref.: 24/6076 24/6046

Report Number: 727208  
Location: Not Specified

Superseded Report:

## Received Sample Overview

| Lab Sample No(s) | Customer Sample Ref. | AGS Ref. | Depth (m)     | Sampled Date |
|------------------|----------------------|----------|---------------|--------------|
| 29642692         | 24/6046-11-LIQUID    |          | 2.50 - 2.50   | 09/04/2024   |
| 29642693         | 24/6046-33-LIQUID    |          | 3.75 - 3.75   | 09/04/2024   |
| 29642694         | 24/6046-42-LIQUID    |          | 2.50 - 2.50   | 09/04/2024   |
| 29642695         | 24/6046-53-LIQUID    |          |               | 09/04/2024   |
| 29642696         | 24/6046-64-LIQUID    |          |               | 09/04/2024   |
| 29642697         | 24/6076-07-LIQUID    |          | 12.00 - 12.00 | 09/04/2024   |
| 29642699         | 24/6076-14-LIQUID    |          | 7.50 - 7.50   | 09/04/2024   |
| 29642700         | 24/6076-21-LIQUID    |          | 9.00 - 9.00   | 09/04/2024   |
| 29642701         | 24/6076-28-LIQUID    |          | 9.00 - 9.00   | 09/04/2024   |

Only received samples which have had analysis scheduled will be shown on the following pages.



# CERTIFICATE OF ANALYSIS

SDG: 240412-53  
Client Ref.: 24/6076 24/6046

Report Number: 727208  
Location: Not Specified

Superseded Report:

## Results Legend



Test



No Determination  
Possible

## Sample Types -

S - Soil/Solid  
UNS - Unspecified Solid  
GW - Ground Water  
SW - Surface Water  
LE - Land Leachate  
PL - Prepared Leachate  
PR - Process Water  
SA - Saline Water  
TE - Trade Effluent  
TS - Treated Sewage  
US - Untreated Sewage  
RE - Recreational Water  
DW - Drinking Water  
Non-regulatory  
UNL - Unspecified Liquid  
SL - Sludge  
G - Gas  
OTH - Other

Lab Sample No(s)

Customer  
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

1,4-Dioxane

All

NDPs: 0  
Tests: 9

X X X X X X X X X X







CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED 17/12/2024  
Validated

SDG: 240412-53      Report Number: 727208      Superseded Report:  
Client Ref.: 24/6076 24/6046      Location: Not Specified

Table of Results - Appendix

| Method No | Description                                    |
|-----------|------------------------------------------------|
| TM420     | Determination of 1,4-Dioxane in liquid by GCMS |

NA = not applicable.  
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



# CERTIFICATE OF ANALYSIS

SBC PLANNING  
RECEIVED - 17-12-2024  
Validated

SDG: 240412-53  
Client Ref.: 24/6076 24/6046

Report Number: 727208  
Location: Not Specified

Superseded Report:

## Test Completion Dates

| Lab Sample No(s)     | 29642692              | 29642693              | 29642694              | 29642695              | 29642696              | 29642697              | 29642699              | 29642700              | 29642701              |
|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Customer Sample Ref. | 24/6046-11-LIQU<br>ID | 24/6046-33-LIQU<br>ID | 24/6046-42-LIQU<br>ID | 24/6046-53-LIQU<br>ID | 24/6046-64-LIQU<br>ID | 24/6076-07-LIQU<br>ID | 24/6076-14-LIQU<br>ID | 24/6076-21-LIQU<br>ID | 24/6076-28-LIQU<br>ID |
| AGS Ref.             |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Depth                | 2.50 - 2.50           | 3.75 - 3.75           | 2.50 - 2.50           |                       |                       | 12.00 - 12.00         | 7.50 - 7.50           | 9.00 - 9.00           | 9.00 - 9.00           |
| Type                 | Ground Water          | Ground Water          | Ground Water          | Ground Water          | Ground Water          | Ground Water          | Ground Water          | Ground Water          | Ground Water          |
| 1,4-Dioxane          | 22-Apr-2024           | 29-Apr-2024           | 29-Apr-2024           | 22-Apr-2024           | 22-Apr-2024           | 22-Apr-2024           | 22-Apr-2024           | 22-Apr-2024           | 22-Apr-2024           |





SDG: 240412-53  
Client Ref: 24/6076 24/6046

Report Number: 727208  
Location: Not Specified

Superseded Report:

## Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH<sub>4</sub> by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEx). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

## General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

### 19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

|   |                                                                             |
|---|-----------------------------------------------------------------------------|
| 1 | Container with Headspace provided for volatiles analysis                    |
| 2 | Incorrect container received                                                |
| 3 | Deviation from method                                                       |
| 4 | Matrix interference                                                         |
| ♦ | Sample holding time exceeded in laboratory                                  |
| @ | Sample holding time exceeded due to late arrival of instructions or samples |
| § | Sampled on date not provided                                                |

### 20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

#### Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

| Asbestos Type         | Common Name    |
|-----------------------|----------------|
| Chrysotile            | White Asbestos |
| Amosite               | Brown Asbestos |
| Crocidolite           | Blue Asbestos  |
| Fibrous Actinolite    | -              |
| Fibrous Anthophyllite | -              |
| Fibrous Tremolite     | -              |

#### Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

#### Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

**Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.**

**The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.**



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SE1 8NW



4225



**Attention :** Eleanor Brown

**Date :** 7th August, 2024

**Your reference :** 1620016166-003

**Our reference :** Test Report 24/11750 Batch 1 Schedule A 24/11750 Batch 1 Schedule B 24/11750 Batch 1 Schedule C

**Location :** Manor Farm

**Date samples received :** 9th July, 2024

**Status :** Final Report

**Issue :** 202408071152

Four samples were received for analysis on 9th July, 2024 of which four were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – CO<sub>2</sub>e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 15.204 kg of CO<sub>2</sub>

Scope 1&2&3 emissions - 35.931 kg of CO<sub>2</sub>

**Authorised By:**

**Simon Gomery BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/11750

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

[illegible]

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/11750

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                          | 1-14                  | 15-28                 | 29-42                 | 43-56                 |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                               | WS13                  | BH2517                | BH2522                | BH2518                |  |  |  |  |  |  |                                                              |       |            |
| Depth                                   | 3.30                  | 3.11                  | 2.50                  | 1.40                  |  |  |  |  |  |  |                                                              |       |            |
| COC No / misc                           |                       |                       |                       |                       |  |  |  |  |  |  |                                                              |       |            |
| Containers                              | V H H N P B O D P F G | V H H N P B O D P F G | V H H N P B O D P F G | V H H N P B O D P F G |  |  |  |  |  |  |                                                              |       |            |
| Sample Date                             | 08/07/2024            | 08/07/2024            | 08/07/2024            | 08/07/2024            |  |  |  |  |  |  |                                                              |       |            |
| Sample Type                             | Ground Water          | Ground Water          | Ground Water          | Ground Water          |  |  |  |  |  |  |                                                              |       |            |
| Batch Number                            | 1                     | 1                     | 1                     | 1                     |  |  |  |  |  |  |                                                              |       |            |
| Date of Receipt                         | 09/07/2024            | 09/07/2024            | 09/07/2024            | 09/07/2024            |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| PAH MS                                  |                       |                       |                       |                       |  |  |  |  |  |  |                                                              |       |            |
| Naphthalene #                           | <0.1 <sup>SV</sup>    | <0.1 <sup>SV</sup>    | <0.1 <sup>SV</sup>    | <0.1                  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene #                        | 0.035 <sup>SV</sup>   | 0.020 <sup>SV</sup>   | 0.039 <sup>SV</sup>   | 0.007                 |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene #                          | 1.199 <sup>SV</sup>   | 0.929 <sup>SV</sup>   | 1.416 <sup>SV</sup>   | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene #                              | 0.261 <sup>SV</sup>   | 0.073 <sup>SV</sup>   | 0.171 <sup>SV</sup>   | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene #                          | 0.044 <sup>SV</sup>   | 0.075 <sup>SV</sup>   | 0.012 <sup>SV</sup>   | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene #                            | 0.171 <sup>SV</sup>   | 0.055 <sup>SV</sup>   | 0.045 <sup>SV</sup>   | 0.026                 |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene #                          | 1.871 <sup>SV</sup>   | 0.135 <sup>SV</sup>   | 0.067 <sup>SV</sup>   | 0.007                 |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene #                                | 1.244 <sup>SV</sup>   | 0.095 <sup>SV</sup>   | 0.047 <sup>SV</sup>   | 0.007                 |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                    | 0.184 <sup>SV</sup>   | <0.005 <sup>SV</sup>  | 0.012 <sup>SV</sup>   | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene #                              | 0.195 <sup>SV</sup>   | <0.005 <sup>SV</sup>  | 0.012 <sup>SV</sup>   | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene #                  | 0.157 <sup>SV</sup>   | <0.008 <sup>SV</sup>  | 0.012 <sup>SV</sup>   | <0.008                |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                        | 0.087 <sup>SV</sup>   | <0.005 <sup>SV</sup>  | 0.006 <sup>SV</sup>   | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #                   | 0.047 <sup>SV</sup>   | <0.005 <sup>SV</sup>  | <0.005 <sup>SV</sup>  | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #                 | 0.008 <sup>SV</sup>   | <0.005 <sup>SV</sup>  | <0.005 <sup>SV</sup>  | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                    | 0.039 <sup>SV</sup>   | <0.005 <sup>SV</sup>  | <0.005 <sup>SV</sup>  | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total #                          | 5.542                 | 1.382                 | 1.839                 | <0.173                |  |  |  |  |  |  | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                    | 0.113                 | <0.008                | 0.009                 | <0.008                |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                    | 0.044                 | <0.008                | <0.008                | <0.008                |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery                | 61 <sup>SV</sup>      | 64 <sup>SV</sup>      | 56 <sup>SV</sup>      | 79                    |  |  |  |  |  |  | <0                                                           | %     | TM4/PM30   |
| VOC TICs                                | -                     | ND                    | ND                    | ND                    |  |  |  |  |  |  |                                                              | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #           | -                     | <0.1                  | <0.1                  | <0.1                  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Benzene #                               | -                     | <0.5                  | <0.5                  | <0.5                  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Toluene #                               | -                     | <5                    | <5                    | <5                    |  |  |  |  |  |  | <5                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                          | -                     | <1                    | <1                    | <1                    |  |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                            | -                     | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                              | -                     | <1                    | <1                    | <1                    |  |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8           | -                     | 110                   | 108                   | 110                   |  |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |
| Surrogate Recovery 4-Bromofluorobenzene | -                     | 103                   | 98                    | 99                    |  |  |  |  |  |  | <0                                                           | %     | TM15/PM10  |
| SVOC TICs                               | -                     | ND                    | ND                    | ND                    |  |  |  |  |  |  |                                                              | None  | TM16/PM30  |
| MTBE #                                  | <5                    | -                     | -                     | -                     |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12  |
| Benzene #                               | <5                    | -                     | -                     | -                     |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12  |
| Toluene #                               | <5                    | -                     | -                     | -                     |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12  |
| Ethylbenzene #                          | <5                    | -                     | -                     | -                     |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12  |
| m/p-Xylene #                            | <5                    | -                     | -                     | -                     |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12  |
| o-Xylene #                              | <5                    | -                     | -                     | -                     |  |  |  |  |  |  | <5                                                           | ug/l  | TM36/PM12  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/11750

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.                                              | 1-14               | 15-28               | 29-42                | 43-56               |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |          |               |
|-------------------------------------------------------------|--------------------|---------------------|----------------------|---------------------|--|--|--|--|--|--|--------------------------------------------------------------|----------|---------------|
| Sample ID                                                   | WS13               | BH2517              | BH2522               | BH2518              |  |  |  |  |  |  |                                                              |          |               |
| Depth                                                       | 3.30               | 3.11                | 2.50                 | 1.40                |  |  |  |  |  |  |                                                              |          |               |
| COC No / misc                                               |                    |                     |                      |                     |  |  |  |  |  |  |                                                              |          |               |
| Containers                                                  | V H H N P BOD PF G | V H H N P BOD PF G  | V H H N P BOD PF G   | V H H N P BOD PF G  |  |  |  |  |  |  |                                                              |          |               |
| Sample Date                                                 | 08/07/2024         | 08/07/2024          | 08/07/2024           | 08/07/2024          |  |  |  |  |  |  |                                                              |          |               |
| Sample Type                                                 | Ground Water       | Ground Water        | Ground Water         | Ground Water        |  |  |  |  |  |  |                                                              |          |               |
| Batch Number                                                | 1                  | 1                   | 1                    | 1                   |  |  |  |  |  |  |                                                              |          |               |
| Date of Receipt                                             | 09/07/2024         | 09/07/2024          | 09/07/2024           | 09/07/2024          |  |  |  |  |  |  | LOD/LOR                                                      | Units    | Method No.    |
| TPH CWG                                                     |                    |                     |                      |                     |  |  |  |  |  |  |                                                              |          |               |
| <b>Aliphatics</b>                                           |                    |                     |                      |                     |  |  |  |  |  |  |                                                              |          |               |
| >C5-C6 (HS_1D_AL) #                                         | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM36/PM12     |
| >C6-C8 (HS_1D_AL) #                                         | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM36/PM12     |
| >C8-C10 (HS_1D_AL) #                                        | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM36/PM12     |
| >C10-C12 (EH_CU_1D_AL) #                                    | <5                 | <5                  | <5                   | <5                  |  |  |  |  |  |  | <5                                                           | ug/l     | TM5/PM16/PM30 |
| >C12-C16 (EH_CU_1D_AL) #                                    | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| >C16-C21 (EH_CU_1D_AL) #                                    | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| >C21-C35 (EH_CU_1D_AL) #                                    | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) #                   | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| <b>Aromatics</b>                                            |                    |                     |                      |                     |  |  |  |  |  |  |                                                              |          |               |
| >C5-EC7 (HS_1D_AR) #                                        | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM36/PM12     |
| >EC7-EC8 (HS_1D_AR) #                                       | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM36/PM12     |
| >EC8-EC10 (HS_1D_AR) #                                      | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM36/PM12     |
| >EC10-EC12 (EH_CU_1D_AR) #                                  | <5                 | <5                  | <5                   | <5                  |  |  |  |  |  |  | <5                                                           | ug/l     | TM5/PM16/PM30 |
| >EC12-EC16 (EH_CU_1D_AR) #                                  | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| >EC16-EC21 (EH_CU_1D_AR) #                                  | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| >EC21-EC35 (EH_CU_1D_AR) #                                  | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                    | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| Total aliphatics and aromatics(C5-35) (EH_CU+HS_1D_Total) # | <10                | <10                 | <10                  | <10                 |  |  |  |  |  |  | <10                                                          | ug/l     | TM5/PM16/PM30 |
| Total Phenols HPLC                                          | <0.15              | <0.15               | <0.15                | <0.15               |  |  |  |  |  |  | <0.15                                                        | mg/l     | TM26/PM0      |
| Sulphate as SO <sub>4</sub> #                               | 36.2               | 66.0                | <0.5                 | 165.6               |  |  |  |  |  |  | <0.5                                                         | mg/l     | TM38/PM0      |
| Chloride #                                                  | 16.4               | 208.2               | 71.7                 | 12.3                |  |  |  |  |  |  | <0.3                                                         | mg/l     | TM38/PM0      |
| Nitrate as NO <sub>3</sub> #                                | <0.2               | <0.2                | <0.2                 | <0.2                |  |  |  |  |  |  | <0.2                                                         | mg/l     | TM38/PM0      |
| Nitrite as NO <sub>2</sub> #                                | <0.02              | <0.02               | <0.02                | <0.02               |  |  |  |  |  |  | <0.02                                                        | mg/l     | TM38/PM0      |
| Ortho Phosphate as PO <sub>4</sub> #                        | 0.33               | 0.16                | 0.38                 | <0.06               |  |  |  |  |  |  | <0.06                                                        | mg/l     | TM38/PM0      |
| Total Cyanide #                                             | 0.10 <sup>AD</sup> | 0.03 <sup>AA</sup>  | 0.03                 | 0.01                |  |  |  |  |  |  | <0.01                                                        | mg/l     | TM89/PM0      |
| Ammoniacal Nitrogen as N #                                  | 7.90               | 11.46               | 22.01                | 0.49                |  |  |  |  |  |  | <0.03                                                        | mg/l     | TM38/PM0      |
| Hexavalent Chromium                                         | <6                 | <6                  | <6                   | <6                  |  |  |  |  |  |  | <6                                                           | ug/l     | TM38/PM0      |
| Total Dissolved Chromium III                                | <6                 | <6                  | <6                   | -                   |  |  |  |  |  |  | <6                                                           | ug/l     | TM0/PM0       |
| Total Dissolved Chromium III                                | NDP                | NDP                 | NDP                  | <6                  |  |  |  |  |  |  | <6                                                           | ug/l     | NONE/NONE     |
| Total Alkalinity as CaCO <sub>3</sub> #                     | 790                | 668                 | 1064                 | 192                 |  |  |  |  |  |  | <1                                                           | mg/l     | TM75/PM0      |
| 1,4-Dioxane*                                                | -                  | <7.00 <sup>AE</sup> | <17.50 <sup>AF</sup> | <7.00 <sup>AE</sup> |  |  |  |  |  |  | <0.07                                                        | ug/l     | Subcontracted |
| BOD (Settled) #                                             | 20 <sup>AB</sup>   | 18 <sup>AC</sup>    | 40 <sup>AC</sup>     | <3 <sup>AA</sup>    |  |  |  |  |  |  | <1                                                           | mg/l     | TM58/PM0      |
| COD (Settled) #                                             | 66                 | 135                 | 121                  | 58                  |  |  |  |  |  |  | <7                                                           | mg/l     | TM57/PM0      |
| Dissolved Organic Carbon #                                  | 3                  | 25                  | <2                   | 14                  |  |  |  |  |  |  | <2                                                           | mg/l     | TM60/PM0      |
| Free Ammonia as NH <sub>3</sub>                             | 0.036              | 0.190               | 0.230                | <0.007              |  |  |  |  |  |  | <0.007                                                       | mg/l     | TM176/PM0     |
| pH #                                                        | 7.58               | 8.06                | 7.89                 | 7.77                |  |  |  |  |  |  | <0.01                                                        | pH units | TM73/PM0      |

SVOC Report : Liquid

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

Client Name: Ramboll  
 Reference: 1620016166-003  
 Location: Manor Farm  
 Contact: Eleanor Brown  
 EMT Job No: 24/11750

VOC Report : Liquid

| EMT Sample No.                          | 15-28                 | 29-42                 | 43-56                 |  |  |  |  |  |  |         |       |            |
|-----------------------------------------|-----------------------|-----------------------|-----------------------|--|--|--|--|--|--|---------|-------|------------|
| Sample ID                               | BH2517                | BH2522                | BH2518                |  |  |  |  |  |  |         |       |            |
| Depth                                   | 3.11                  | 2.50                  | 1.40                  |  |  |  |  |  |  |         |       |            |
| COC No / misc                           |                       |                       |                       |  |  |  |  |  |  |         |       |            |
| Containers                              | V H N N P B O D P F G | V H N N P B O D P F G | V H N N P B O D P F G |  |  |  |  |  |  |         |       |            |
| Sample Date                             | 08/07/2024            | 08/07/2024            | 08/07/2024            |  |  |  |  |  |  |         |       |            |
| Sample Type                             | Ground Water          | Ground Water          | Ground Water          |  |  |  |  |  |  |         |       |            |
| Batch Number                            | 1                     | 1                     | 1                     |  |  |  |  |  |  |         |       |            |
| Date of Receipt                         | 09/07/2024            | 09/07/2024            | 09/07/2024            |  |  |  |  |  |  |         |       |            |
|                                         |                       |                       |                       |  |  |  |  |  |  | LOD/LOR | Units | Method No. |
| VOC MS                                  |                       |                       |                       |  |  |  |  |  |  |         |       |            |
| Dichlorodifluoromethane                 | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #           | <0.1                  | <0.1                  | <0.1                  |  |  |  |  |  |  | <0.1    | ug/l  | TM15/PM10  |
| Chloromethane #                         | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Vinyl Chloride #                        | <0.1                  | <0.1                  | <0.1                  |  |  |  |  |  |  | <0.1    | ug/l  | TM15/PM10  |
| Bromomethane                            | <1                    | <1                    | <1                    |  |  |  |  |  |  | <1      | ug/l  | TM15/PM10  |
| Chloroethane #                          | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Trichlorofluoromethane #                | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,1-Dichloroethene (1,1 DCE) #          | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Dichloromethane (DCM) #                 | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| trans-1-2-Dichloroethene #              | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,1-Dichloroethane #                    | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| cis-1-2-Dichloroethene #                | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 2,2-Dichloropropane                     | <1                    | <1                    | <1                    |  |  |  |  |  |  | <1      | ug/l  | TM15/PM10  |
| Bromochloromethane #                    | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Chloroform #                            | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,1,1-Trichloroethane #                 | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,1-Dichloropropene #                   | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Carbon tetrachloride #                  | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2-Dichloroethane #                    | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Benzene #                               | <0.5                  | <0.5                  | <0.5                  |  |  |  |  |  |  | <0.5    | ug/l  | TM15/PM10  |
| Trichloroethene (TCE) #                 | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,2-Dichloropropane #                   | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Dibromomethane #                        | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Bromodichloromethane #                  | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| cis-1-3-Dichloropropene                 | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Toluene #                               | <5                    | <5                    | <5                    |  |  |  |  |  |  | <5      | ug/l  | TM15/PM10  |
| trans-1-3-Dichloropropene               | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,1,2-Trichloroethane #                 | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Tetrachloroethene (PCE) #               | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,3-Dichloropropane #                   | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Dibromochloromethane #                  | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2-Dibromoethane #                     | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Chlorobenzene #                         | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,1,1,2-Tetrachloroethane #             | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Ethylbenzene #                          | <1                    | <1                    | <1                    |  |  |  |  |  |  | <1      | ug/l  | TM15/PM10  |
| m/p-Xylene #                            | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| o-Xylene #                              | <1                    | <1                    | <1                    |  |  |  |  |  |  | <1      | ug/l  | TM15/PM10  |
| Styrene                                 | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Bromoform #                             | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Isopropylbenzene #                      | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,1,2,2-Tetrachloroethane               | <4                    | <4                    | <4                    |  |  |  |  |  |  | <4      | ug/l  | TM15/PM10  |
| Bromobenzene #                          | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2,3-Trichloropropane #                | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Propylbenzene #                         | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 2-Chlorotoluene #                       | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,3,5-Trimethylbenzene #                | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 4-Chlorotoluene #                       | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| tert-Butylbenzene #                     | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,2,4-Trimethylbenzene #                | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| sec-Butylbenzene #                      | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 4-Isopropyltoluene #                    | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,3-Dichlorobenzene #                   | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,4-Dichlorobenzene #                   | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| n-Butylbenzene #                        | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,2-Dichlorobenzene #                   | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,2-Dibromo-3-chloropropane             | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2,4-Trichlorobenzene                  | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Hexachlorobutadiene                     | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Naphthalene                             | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2,3-Trichlorobenzene                  | <3                    | <3                    | <3                    |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8           | 110                   | 108                   | 110                   |  |  |  |  |  |  | <0      | %     | TM15/PM10  |
| Surrogate Recovery 4-Bromofluorobenzene | 103                   | 98                    | 99                    |  |  |  |  |  |  | <0      | %     | TM15/PM10  |

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced

## NDP Reason Report

**Matrix : Liquid**

[illegible]



## Element Materials Technology

### Notification of Deviating Samples

|                     |                |
|---------------------|----------------|
| <b>Client Name:</b> | Ramboll        |
| <b>Reference:</b>   | 1620016166-003 |
| <b>Location:</b>    | Manor Farm     |
| <b>Contact:</b>     | Eleanor Brown  |

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/11750

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x3 Dilution                                                                                                                                                              |
| AB      | x6 Dilution                                                                                                                                                              |
| AC      | x8 Dilution                                                                                                                                                              |
| AD      | x10 Dilution                                                                                                                                                             |
| AE      | x100 Dilution                                                                                                                                                            |
| AF      | x250 Dilution                                                                                                                                                            |



# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11750

| Test Method No. | Description                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                       | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM0             | Not available                                                                                                                                                                                                      | PM0                              | No preparation is required.                                                                                                                                       |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                 | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                 | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present. | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex. | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                    | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                             | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                  | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                          |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                  | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                          | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                      | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                      | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                             | Yes                   |                        |                                                 |                              |
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                 | PM0                              | No preparation is required.                                                                                                                                       |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11750

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                   |                        |                                                 |                              |
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.   | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                             | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                             | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                                 | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                    | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.                                                                                                       | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                                                                                                                          | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                                                                                                                          | PM0                              | No preparation is required.                                                                                                                                        | Yes                   |                        |                                                 |                              |



## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11750

| Test Method No. | Description                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                             | PM0                              | No preparation is required.                                                                                                                                        | Yes                     |                        |                                                 |                              |
| TM170           | Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                     |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                           | PM0                              | No preparation is required.                                                                                                                                        |                         |                        |                                                 |                              |
| NONE            | No Method Code                                                                                                                                                                                                     | NONE                             | No Method Code                                                                                                                                                     |                         |                        |                                                 |                              |
| Subcontracted   | See attached subcontractor report for accreditation status and provider.                                                                                                                                           |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |



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4225



**Attention :** Eleanor Brown  
**Date :** 22nd July, 2024  
**Your reference :** 162001616-003  
**Our reference :** Test Report 24/11830 Batch 1  
**Location :** Manor Farm  
**Date samples received :** 10th July, 2024  
**Status :** Final Report  
**Issue :** 202407221539

Eight samples were received for analysis on 10th July, 2024 of which eight were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 25.05 kg of CO2

Scope 1&2&3 emissions - 59.201 kg of CO2

**Authorised By:**

**Paul Boden BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 162001616-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/11830

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                                   | 1-14                 | 15-28                | 29-42                | 43-56                | 57-70                 | 71-84                 | 85-98                 | 99-112                |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|--------------------------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                                        | SW01                 | SW02                 | SW03                 | BH2527               | BH2526                | WS06                  | WS07                  | BH0X                  |  |  |                                                              |       |            |
| Depth                                            |                      |                      |                      | 2.35                 | 2.40                  | 2.50                  | 2.83                  | 2.40                  |  |  |                                                              |       |            |
| COC No / misc                                    |                      |                      |                      |                      |                       |                       |                       |                       |  |  |                                                              |       |            |
| Containers                                       | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G  | V H H N N P BOD PF G  | V H H N N P BOD PF G  | V H H N N P BOD PF G  |  |  |                                                              |       |            |
| Sample Date                                      | 09/07/2024           | 09/07/2024           | 09/07/2024           | 09/07/2024           | 09/07/2024            | 09/07/2024            | 09/07/2024            | 09/07/2024            |  |  |                                                              |       |            |
| Sample Type                                      | Surface Water        | Surface Water        | Surface Water        | Ground Water         | Ground Water          | Ground Water          | Ground Water          | Ground Water          |  |  |                                                              |       |            |
| Batch Number                                     | 1                    | 1                    | 1                    | 1                    | 1                     | 1                     | 1                     | 1                     |  |  |                                                              |       |            |
| Date of Receipt                                  | 10/07/2024           | 10/07/2024           | 10/07/2024           | 10/07/2024           | 10/07/2024            | 10/07/2024            | 10/07/2024            | 10/07/2024            |  |  | LOD/LOR                                                      | Units | Method No. |
| Dissolved Arsenic #                              | 1.1                  | 1.2                  | 1.1                  | 17.3                 | 51.9                  | <0.9                  | <0.9                  | 51.2                  |  |  | <0.9                                                         | ug/l  | TM170/PM14 |
| Dissolved Beryllium #                            | <0.5                 | <0.5                 | <0.5                 | <0.5                 | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Boron #                                | 58                   | 48                   | 48                   | 226                  | 81                    | 405                   | 445                   | 79                    |  |  | <12                                                          | ug/l  | TM170/PM14 |
| Dissolved Cadmium #                              | <0.03                | <0.03                | <0.03                | <0.03                | <0.03                 | <0.03                 | <0.03                 | <0.03                 |  |  | <0.03                                                        | ug/l  | TM170/PM14 |
| Total Dissolved Chromium #                       | 0.3                  | 0.2                  | 0.2                  | 0.6                  | 0.4                   | 0.7                   | 0.8                   | 0.3                   |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Copper #                               | 3                    | 2                    | 2                    | <1                   | <1                    | <1                    | <1                    | <1                    |  |  | <1                                                           | ug/l  | TM170/PM14 |
| Total Dissolved Iron #                           | 28.9                 | 24.3                 | 26.4                 | 7925.2 <sup>AE</sup> | 30062.7 <sup>AG</sup> | 18239.6 <sup>AF</sup> | 14861.0 <sup>AF</sup> | 32828.3 <sup>AG</sup> |  |  | <4.7                                                         | ug/l  | TM170/PM14 |
| Dissolved Lead #                                 | <0.4                 | <0.4                 | <0.4                 | <0.4                 | <0.4                  | <0.4                  | <0.4                  | <0.4                  |  |  | <0.4                                                         | ug/l  | TM170/PM14 |
| Dissolved Mercury #                              | <0.5                 | <0.5                 | <0.5                 | <0.5                 | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Nickel #                               | 1.7                  | 1.6                  | 1.9                  | 2.7                  | 1.3                   | 0.7                   | 2.5                   | 1.3                   |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Selenium #                             | <1.2                 | <1.2                 | <1.2                 | <1.2                 | 1.3                   | <1.2                  | <1.2                  | 1.3                   |  |  | <1.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Vanadium #                             | 1.9                  | 1.9                  | 1.8                  | 2.9                  | 1.5                   | 0.7                   | 1.0                   | 1.4                   |  |  | <0.6                                                         | ug/l  | TM170/PM14 |
| Dissolved Zinc #                                 | 9.9                  | 7.4                  | 8.1                  | 5.5                  | 2.4                   | 3.7                   | 3.0                   | 3.0                   |  |  | <1.5                                                         | ug/l  | TM170/PM14 |
| Total Hardness Dissolved (as CaCO <sub>3</sub> ) | 251                  | 257                  | 263                  | 858                  | 795                   | 1027                  | 789                   | 860                   |  |  | <1                                                           | mg/l  | TM30/PM14  |
| PAH MS                                           |                      |                      |                      |                      |                       |                       |                       |                       |  |  |                                                              |       |            |
| Naphthalene #                                    | <0.1                 | <0.1 <sup>SV</sup>   | <0.1                 | <0.1                 | <0.1                  | <0.1                  | <0.1                  | <0.1                  |  |  | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene #                                 | <0.005               | <0.005 <sup>SV</sup> | <0.005               | <0.005               | <0.005                | <0.005                | <0.005                | 0.007                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene #                                   | <0.005               | <0.005 <sup>SV</sup> | <0.005               | 0.008                | 0.008                 | 1.013                 | 0.925                 | 0.019                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene #                                       | <0.005               | <0.005 <sup>SV</sup> | <0.005               | 0.009                | 0.008                 | 0.853                 | 0.610                 | 0.013                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene #                                   | <0.005               | <0.005 <sup>SV</sup> | <0.005               | 0.008                | <0.005                | 0.257                 | 0.039                 | <0.005                |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene #                                     | <0.005               | <0.005 <sup>SV</sup> | <0.005               | 0.005                | <0.005                | 0.097                 | 0.069                 | 0.006                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene #                                   | 0.011                | <0.005 <sup>SV</sup> | 0.015                | 0.011                | 0.005                 | 0.163                 | 0.068                 | 0.018                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene #                                         | 0.009                | <0.005 <sup>SV</sup> | 0.013                | 0.012                | 0.005                 | 0.112                 | 0.052                 | 0.016                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                             | <0.005               | <0.005 <sup>SV</sup> | <0.005               | 0.011                | <0.005                | 0.025                 | 0.013                 | 0.010                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene #                                       | <0.005               | <0.005 <sup>SV</sup> | <0.005               | 0.007                | <0.005                | 0.021                 | 0.014                 | 0.008                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene #                           | <0.008               | <0.008 <sup>SV</sup> | <0.008               | 0.016                | <0.008                | 0.021                 | 0.010                 | 0.015                 |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                                 | 0.007                | <0.005 <sup>SV</sup> | 0.007                | 0.009                | <0.005                | 0.010                 | 0.006                 | 0.008                 |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #                            | <0.005               | <0.005 <sup>SV</sup> | 0.006                | 0.007                | <0.005                | 0.006                 | <0.005                | <0.005                |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #                          | <0.005               | <0.005 <sup>SV</sup> | <0.005               | <0.005               | <0.005                | <0.005                | <0.005                | <0.005                |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                             | <0.005               | <0.005 <sup>SV</sup> | 0.006                | 0.008                | <0.005                | 0.007                 | <0.005                | <0.005                |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total #                                   | <0.173               | <0.173 <sup>SV</sup> | <0.173               | <0.173               | <0.173                | 2.585                 | 1.806                 | <0.173                |  |  | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                             | <0.008               | <0.008 <sup>SV</sup> | <0.008               | 0.012                | <0.008                | 0.015                 | <0.008                | 0.011                 |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                             | <0.008               | <0.008 <sup>SV</sup> | <0.008               | <0.008               | <0.008                | <0.008                | <0.008                | <0.008                |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery                         | 90                   | 59 <sup>SV</sup>     | 92                   | 91                   | 76                    | 91                    | 85                    | 90                    |  |  | <0                                                           | %     | TM4/PM30   |
| VOC TICs                                         | ND                   | ND                   | -                    | -                    | -                     | -                     | -                     | -                     |  |  |                                                              | None  | TM15/PM10  |
| SVOC TICs                                        | ND                   | ND                   | -                    | -                    | -                     | -                     | -                     | -                     |  |  |                                                              | None  | TM16/PM30  |
| MTBE #                                           | <5                   | <5                   | <5                   | <5                   | <5                    | <5                    | <5                    | <5                    |  |  | <5                                                           | ug/l  | TM36/PM12  |
| Benzene #                                        | <5                   | <5                   | <5                   | <5                   | <5                    | <5                    | <5                    | <5                    |  |  | <5                                                           | ug/l  | TM36/PM12  |
| Toluene #                                        | <5                   | <5                   | <5                   | <5                   | <5                    | <5                    | <5                    | <5                    |  |  | <5                                                           | ug/l  | TM36/PM12  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 162001616-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/11830

Report : Liquid

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.                                                         | 1-14               | 15-28              | 29-42              | 43-56              | 57-70              | 71-84              | 85-98              | 99-112              |  |  | Please see attached notes for all abbreviations and acronyms |       |              |
|------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--|--|--------------------------------------------------------------|-------|--------------|
| Sample ID                                                              | SW01               | SW02               | SW03               | BH2527             | BH2526             | WS06               | WS07               | BH0X                |  |  |                                                              |       |              |
| Depth                                                                  |                    |                    |                    | 2.35               | 2.40               | 2.50               | 2.83               | 2.40                |  |  |                                                              |       |              |
| COC No / misc                                                          |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
| Containers                                                             | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G  |  |  |                                                              |       |              |
| Sample Date                                                            | 09/07/2024         | 09/07/2024         | 09/07/2024         | 09/07/2024         | 09/07/2024         | 09/07/2024         | 09/07/2024         | 09/07/2024          |  |  |                                                              |       |              |
| Sample Type                                                            | Surface Water      | Surface Water      | Surface Water      | Ground Water       | Ground Water       | Ground Water       | Ground Water       | Ground Water        |  |  |                                                              |       |              |
| Batch Number                                                           | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                   |  |  |                                                              |       |              |
| Date of Receipt                                                        | 10/07/2024         | 10/07/2024         | 10/07/2024         | 10/07/2024         | 10/07/2024         | 10/07/2024         | 10/07/2024         | 10/07/2024          |  |  | LOD/LOR                                                      | Units | Method No.   |
| Ethylbenzene <sup>#</sup>                                              | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                  |  |  | <5                                                           | ug/l  | TM36/PM12    |
| m/p-Xylene <sup>#</sup>                                                | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                  |  |  | <5                                                           | ug/l  | TM36/PM12    |
| o-Xylene <sup>#</sup>                                                  | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                  |  |  | <5                                                           | ug/l  | TM36/PM12    |
| TPH CWG                                                                |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
| Aliphatics                                                             |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
| >C5-C6 (HS_1D_AL) <sup>#</sup>                                         | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM36/PM12    |
| >C6-C8 (HS_1D_AL) <sup>#</sup>                                         | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM36/PM12    |
| >C8-C10 (HS_1D_AL) <sup>#</sup>                                        | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM36/PM12    |
| >C10-C12 (EH_CU_1D_AL) <sup>#</sup>                                    | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                  |  |  | <5                                                           | ug/l  | TM5/PM16/PM3 |
| >C12-C16 (EH_CU_1D_AL) <sup>#</sup>                                    | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| >C16-C21 (EH_CU_1D_AL) <sup>#</sup>                                    | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| >C21-C35 (EH_CU_1D_AL) <sup>#</sup>                                    | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) <sup>#</sup>                   | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| Aromatics                                                              |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
| >C5-EC7 (HS_1D_AR) <sup>#</sup>                                        | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM36/PM12    |
| >EC7-EC8 (HS_1D_AR) <sup>#</sup>                                       | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM36/PM12    |
| >EC8-EC10 (HS_1D_AR) <sup>#</sup>                                      | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM36/PM12    |
| >EC10-EC12 (EH_CU_1D_AR) <sup>#</sup>                                  | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                  |  |  | <5                                                           | ug/l  | TM5/PM16/PM3 |
| >EC12-EC16 (EH_CU_1D_AR) <sup>#</sup>                                  | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| >EC16-EC21 (EH_CU_1D_AR) <sup>#</sup>                                  | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| >EC21-EC35 (EH_CU_1D_AR) <sup>#</sup>                                  | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) <sup>#</sup>                    | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| Total aliphatics and aromatics(C5-35) (EH_CU+HS_1D_Total) <sup>#</sup> | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                 |  |  | <10                                                          | ug/l  | TM5/PM16/PM3 |
| Total Phenols HPLC                                                     | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.30 <sup>AA</sup> |  |  | <0.15                                                        | mg/l  | TM26/PM06    |
| Sulphate as SO4 <sup>#</sup>                                           | 37.1               | 34.3               | 34.6               | 223.5              | 3.1                | <0.5               | 9.9                | <0.5                |  |  | <0.5                                                         | mg/l  | TM38/PM06    |
| Chloride <sup>#</sup>                                                  | 45.0               | 43.2               | 43.1               | 17.4               | 46.2               | 15.5               | 67.8               | 49.2                |  |  | <0.3                                                         | mg/l  | TM38/PM06    |
| Nitrate as NO3 <sup>#</sup>                                            | 19.9               | 20.1               | 19.3               | 0.6                | 45.2               | <0.2               | <0.2               | <0.2                |  |  | <0.2                                                         | mg/l  | TM38/PM06    |
| Nitrite as NO2 <sup>#</sup>                                            | 0.06               | 0.05               | 0.05               | <0.02              | <0.02              | <0.02              | <0.02              | <0.02               |  |  | <0.02                                                        | mg/l  | TM38/PM06    |
| Ortho Phosphate as PO4 <sup>#</sup>                                    | 0.66               | 0.52               | 0.39               | <0.06              | <0.06              | <0.06              | <0.06              | <0.06               |  |  | <0.06                                                        | mg/l  | TM38/PM06    |
| Total Cyanide <sup>#</sup>                                             | <0.01              | <0.01              | <0.01              | 0.02               | <0.01              | <0.01              | <0.01              | <0.01               |  |  | <0.01                                                        | mg/l  | TM89/PM06    |
| Ammoniacal Nitrogen as N <sup>#</sup>                                  | 0.06               | 0.05               | 0.06               | 2.42               | 3.27               | 12.27              | 6.86               | 3.37                |  |  | <0.03                                                        | mg/l  | TM38/PM06    |
| Hexavalent Chromium                                                    | <6                 | <6                 | <6                 | <6                 | <6                 | <6                 | <6                 | <6                  |  |  | <6                                                           | ug/l  | TM38/PM06    |
| Total Dissolved Chromium III                                           | <6                 | <6                 | <6                 | <6                 | <6                 | <6                 | <6                 | <6                  |  |  | <6                                                           | ug/l  | NONE/NONE    |
| Total Alkalinity as CaCO3 <sup>#</sup>                                 | 212                | 224                | 228                | 712                | 780                | 1050               | 784                | 774                 |  |  | <1                                                           | mg/l  | TM75/PM06    |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |
|                                                                        |                    |                    |                    |                    |                    |                    |                    |                     |  |  |                                                              |       |              |

## Element Materials Technology

Client Name: Ramboll  
Reference: 162001616-003  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/11830

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.  | 1-14                 | 15-28               | 29-42              | 43-56              | 57-70              | 71-84              | 85-98              | 99-112             |  |  | Please see attached notes for all abbreviations and acronyms |       |             |
|-----------------|----------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|--|--------------------------------------------------------------|-------|-------------|
| Sample ID       | SW01                 | SW02                | SW03               | BH2527             | BH2526             | WS06               | WS07               | BH0X               |  |  |                                                              |       |             |
| Depth           |                      |                     |                    | 2.35               | 2.40               | 2.50               | 2.83               | 2.40               |  |  |                                                              |       |             |
| COC No / misc   |                      |                     |                    |                    |                    |                    |                    |                    |  |  |                                                              |       |             |
| Containers      | V H H N P BOD PF G   | V H H N P BOD PF G  | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G |  |  |                                                              |       |             |
| Sample Date     | 09/07/2024           | 09/07/2024          | 09/07/2024         | 09/07/2024         | 09/07/2024         | 09/07/2024         | 09/07/2024         | 09/07/2024         |  |  |                                                              |       |             |
| Sample Type     | Surface Water        | Surface Water       | Surface Water      | Ground Water       | Ground Water       | Ground Water       | Ground Water       | Ground Water       |  |  |                                                              |       |             |
| Batch Number    | 1                    | 1                   | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  |  |  |                                                              |       |             |
| Date of Receipt | 10/07/2024           | 10/07/2024          | 10/07/2024         | 10/07/2024         | 10/07/2024         | 10/07/2024         | 10/07/2024         | 10/07/2024         |  |  | LOD/LOR                                                      | Units | Method No.  |
| PFAAS           |                      |                     |                    |                    |                    |                    |                    |                    |  |  |                                                              |       |             |
| PFBA #          | 0.012 <sup>AC</sup>  | 0.013 <sup>AC</sup> | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPa #          | 0.006 <sup>AC</sup>  | 0.006 <sup>AC</sup> | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxA #         | 0.006 <sup>AC</sup>  | 0.007 <sup>AC</sup> | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpA #         | <0.005 <sup>AC</sup> | 0.002               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOA #          | 0.00610              | 0.00600             | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNA #          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDA #          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnA #         | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDaA           | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTrDA          | <0.006               | <0.006              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.006                                                       | ug/l  | TM135/PM122 |
| PFTeDA          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxDA          | <0.01                | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| PFODA           | <0.025               | <0.025              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.025                                                       | ug/l  | TM135/PM122 |
| PFBS #          | 0.007 <sup>AC</sup>  | 0.006 <sup>AC</sup> | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeS #         | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxS #         | 0.006                | 0.005               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpS #         | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOS #          | 0.00670              | 0.00660             | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNS            | 0.001                | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDS            | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnDS          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDaDS          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTrDS          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X) | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-TA         | <0.02                | <0.02               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| DONA #          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOPrA         | 0.133 <sup>AC</sup>  | 0.133 <sup>AC</sup> | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| NFDHA           | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOBA          | 0.015 <sup>AC</sup>  | 0.015 <sup>AC</sup> | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFECHS          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 3:3 FTCA        | <0.02                | <0.02               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| 5:3 FTCA        | <0.01                | <0.01               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| 7:3 FTCA        | <0.02                | <0.02               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| PFEESA          | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 9Cl-PF3ONS #    | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 11Cl-PF3OUdS    | <0.001               | <0.001              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 4:2 FTS         | <0.005               | <0.005              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| 6:2 FTS         | <0.005               | <0.005              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| 8:2 FTS         | <0.005               | <0.005              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| FBSA            | <0.02                | <0.02               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| FHxSA           | <0.02                | <0.02               | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| FOSA            | <0.005               | <0.005              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| N-MeFOSA        | <0.005               | <0.005              | -                  | -                  | -                  | -                  | -                  | -                  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 162001616-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/11830

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

[illegible]

SVOC Report : Liquid

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

Client Name: Ramboll  
 Reference: 162001616-003  
 Location: Manor Farm  
 Contact: Eleanor Brown  
 EMT Job No: 24/11830

VOC Report : Liquid

| EMT Sample No.                          | 1-14                  | 15-28                 |            |  |  |  |  |  |  |      |      |           |  |
|-----------------------------------------|-----------------------|-----------------------|------------|--|--|--|--|--|--|------|------|-----------|--|
| Sample ID                               | SW01                  | SW02                  |            |  |  |  |  |  |  |      |      |           |  |
| Depth                                   |                       |                       |            |  |  |  |  |  |  |      |      |           |  |
| COC No / misc                           |                       |                       |            |  |  |  |  |  |  |      |      |           |  |
| Containers                              | V H N N P B O D P F G | V H N N P B O D P F G |            |  |  |  |  |  |  |      |      |           |  |
| Sample Date                             | 09/07/2024            | 09/07/2024            |            |  |  |  |  |  |  |      |      |           |  |
| Sample Type                             | Surface Water         | Surface Water         |            |  |  |  |  |  |  |      |      |           |  |
| Batch Number                            | 1                     | 1                     |            |  |  |  |  |  |  |      |      |           |  |
| Date of Receipt                         | 10/07/2024            | 10/07/2024            |            |  |  |  |  |  |  |      |      |           |  |
|                                         | LOD/LOR               | Units                 | Method No. |  |  |  |  |  |  |      |      |           |  |
| VOC MS                                  |                       |                       |            |  |  |  |  |  |  |      |      |           |  |
| Dichlorodifluoromethane                 | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Methyl Tertiary Butyl Ether #           | <0.1                  | <0.1                  |            |  |  |  |  |  |  | <0.1 | ug/l | TM15/PM10 |  |
| Chloromethane #                         | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Vinyl Chloride #                        | <0.1                  | <0.1                  |            |  |  |  |  |  |  | <0.1 | ug/l | TM15/PM10 |  |
| Bromomethane                            | <1                    | <1                    |            |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |  |
| Chloroethane #                          | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Trichlorofluoromethane #                | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,1-Dichloroethene (1,1 DCE) #          | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Dichloromethane (DCM) #                 | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| trans-1-2-Dichloroethene #              | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,1-Dichloroethane #                    | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| cis-1-2-Dichloroethene #                | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 2,2-Dichloropropane                     | <1                    | <1                    |            |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |  |
| Bromochloromethane #                    | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Chloroform #                            | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,1,1-Trichloroethane #                 | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,1-Dichloropropene #                   | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Carbon tetrachloride #                  | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,2-Dichloroethane #                    | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Benzene #                               | <0.5                  | <0.5                  |            |  |  |  |  |  |  | <0.5 | ug/l | TM15/PM10 |  |
| Trichloroethene (TCE) #                 | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,2-Dichloropropane #                   | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Dibromomethane #                        | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Bromodichloromethane #                  | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| cis-1-3-Dichloropropene                 | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Toluene #                               | <5                    | <5                    |            |  |  |  |  |  |  | <5   | ug/l | TM15/PM10 |  |
| trans-1-3-Dichloropropene               | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,1,2-Trichloroethane #                 | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Tetrachloroethene (PCE) #               | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,3-Dichloropropane #                   | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Dibromochloromethane #                  | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,2-Dibromoethane #                     | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Chlorobenzene #                         | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,1,1,2-Tetrachloroethane #             | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Ethylbenzene #                          | <1                    | <1                    |            |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |  |
| m/p-Xylene #                            | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| o-Xylene #                              | <1                    | <1                    |            |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |  |
| Styrene                                 | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Bromoform #                             | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| Isopropylbenzene #                      | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,1,2,2-Tetrachloroethane               | <4                    | <4                    |            |  |  |  |  |  |  | <4   | ug/l | TM15/PM10 |  |
| Bromobenzene #                          | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,2,3-Trichloropropane #                | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Propylbenzene #                         | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 2-Chlorotoluene #                       | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,3,5-Trimethylbenzene #                | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 4-Chlorotoluene #                       | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| tert-Butylbenzene #                     | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,2,4-Trimethylbenzene #                | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| sec-Butylbenzene #                      | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 4-Isopropyltoluene #                    | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,3-Dichlorobenzene #                   | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,4-Dichlorobenzene #                   | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| n-Butylbenzene #                        | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,2-Dichlorobenzene #                   | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| 1,2-Dibromo-3-chloropropane             | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,2,4-Trichlorobenzene                  | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Hexachlorobutadiene                     | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Naphthalene                             | <2                    | <2                    |            |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |  |
| 1,2,3-Trichlorobenzene                  | <3                    | <3                    |            |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |  |
| Surrogate Recovery Toluene D8           | 100                   | 112                   |            |  |  |  |  |  |  | <0   | %    | TM15/PM10 |  |
| Surrogate Recovery 4-Bromofluorobenzene | 100                   | 109                   |            |  |  |  |  |  |  | <0   | %    | TM15/PM10 |  |

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced



## Element Materials Technology

### Notification of Deviating Samples

|                     |               |
|---------------------|---------------|
| <b>Client Name:</b> | Ramboll       |
| <b>Reference:</b>   | 162001616-003 |
| <b>Location:</b>    | Manor Farm    |
| <b>Contact:</b>     | Eleanor Brown |

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/11830

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x2 Dilution                                                                                                                                                              |
| AB      | x3 Dilution                                                                                                                                                              |
| AC      | x5 Dilution                                                                                                                                                              |
| AD      | x6 Dilution                                                                                                                                                              |
| AE      | x10 Dilution                                                                                                                                                             |
| AF      | x20 Dilution                                                                                                                                                             |

|    |               |                                       |
|----|---------------|---------------------------------------|
| AG | x50 Dilution  | SBC PLANNING<br>RECEIVED : 17.12.2024 |
| AH | x300 Dilution |                                       |
| AI | x400 Dilution |                                       |

# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11830

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                         | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.                                                                                                                  | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.  | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                                                                                                                                     | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                              | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                   | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                   | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                       | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                       | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                                                                                                                                  | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11830

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                     | Prep Method No. (if appropriate) | Description                                                                                              | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested. | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis. | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                          | PM0                              | No preparation is required.                                                                              |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                          | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                              | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                 | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.                                                                                                    | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                                                                                                                       | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                                                                                                                       | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                                                                                                                                          | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                                                                                                                        | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                           |                       |                        |                                                 |                              |



## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11830

| Test Method No. | Description                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                           | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                                                                     | Yes                     |                        |                                                 |                              |
| TM170           | Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                     |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                           | PM0                              | No preparation is required.                                                                                                                                        |                         |                        |                                                 |                              |
| NONE            | No Method Code                                                                                                                                                                                                     | NONE                             | No Method Code                                                                                                                                                     |                         |                        |                                                 |                              |
| Subcontracted   | See attached subcontractor report for accreditation status and provider.                                                                                                                                           |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |



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4225



**Attention :** Eleanor Brown  
**Date :** 25th July, 2024  
**Your reference :** 162001616-003  
**Our reference :** Test Report 24/11922 Batch 1  
**Location :** Manor Farm  
**Date samples received :** 11th July, 2024  
**Status :** Final Report  
**Issue :** 202407251230

Four samples were received for analysis on 11th July, 2024 of which four were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 15.494 kg of CO2

Scope 1&2&3 emissions - 36.615 kg of CO2

**Authorised By:**

**Paul Boden BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

## Element Materials Technology

Client Name: Ramboll  
Reference: 162001616-003  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/11922

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                                   | 1-12                  | 13-24                 | 25-38                 | 39-50                 |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|--------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                                        | BH2520                | BH2514                | BH2516                | BH2513                |  |  |  |  |  |  |                                                              |       |            |
| Depth                                            | 2.90                  | 4.10                  | 3.50                  | 3.80                  |  |  |  |  |  |  |                                                              |       |            |
| COC No / misc                                    |                       |                       |                       |                       |  |  |  |  |  |  |                                                              |       |            |
| Containers                                       | V H H N P B O D P F G | V H H N P B O D P F G | V H H N P B O D P F G | V H H N P B O D P F G |  |  |  |  |  |  |                                                              |       |            |
| Sample Date                                      | 10/07/2024            | 10/07/2024            | 10/07/2024            | 10/07/2024            |  |  |  |  |  |  |                                                              |       |            |
| Sample Type                                      | Ground Water          | Ground Water          | Ground Water          | Ground Water          |  |  |  |  |  |  |                                                              |       |            |
| Batch Number                                     | 1                     | 1                     | 1                     | 1                     |  |  |  |  |  |  |                                                              |       |            |
| Date of Receipt                                  | 11/07/2024            | 11/07/2024            | 11/07/2024            | 11/07/2024            |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Dissolved Arsenic #                              | 2.6                   | 6.8                   | 1.2                   | 8.1                   |  |  |  |  |  |  | <0.9                                                         | ug/l  | TM170/PM14 |
| Dissolved Beryllium #                            | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Boron #                                | 142                   | 957                   | 83                    | 1060 <sup>AB</sup>    |  |  |  |  |  |  | <12                                                          | ug/l  | TM170/PM14 |
| Dissolved Cadmium #                              | <0.03                 | <0.03                 | 0.03                  | <0.03                 |  |  |  |  |  |  | <0.03                                                        | ug/l  | TM170/PM14 |
| Total Dissolved Chromium #                       | 0.3                   | 0.9                   | <0.2                  | 1.3                   |  |  |  |  |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Copper #                               | 7                     | <1                    | 2                     | <1                    |  |  |  |  |  |  | <1                                                           | ug/l  | TM170/PM14 |
| Total Dissolved Iron #                           | 97.3                  | 5239.2 <sup>AC</sup>  | 29.4                  | 8513.4 <sup>AD</sup>  |  |  |  |  |  |  | <4.7                                                         | ug/l  | TM170/PM14 |
| Dissolved Lead #                                 | 0.7                   | <0.4                  | <0.4                  | <0.4                  |  |  |  |  |  |  | <0.4                                                         | ug/l  | TM170/PM14 |
| Dissolved Mercury #                              | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Nickel #                               | 6.7                   | 1.6                   | 3.5                   | 3.5                   |  |  |  |  |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Selenium #                             | <1.2                  | <1.2                  | <1.2                  | <1.2                  |  |  |  |  |  |  | <1.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Vanadium #                             | 9.4                   | 2.5                   | 4.1                   | 5.2                   |  |  |  |  |  |  | <0.6                                                         | ug/l  | TM170/PM14 |
| Dissolved Zinc #                                 | 15.6                  | 2.8                   | 4.4                   | 4.8                   |  |  |  |  |  |  | <1.5                                                         | ug/l  | TM170/PM14 |
| Total Hardness Dissolved (as CaCO <sub>3</sub> ) | 293                   | 1043                  | 330                   | 1168                  |  |  |  |  |  |  | <1                                                           | mg/l  | TM30/PM14  |
| PAH MS                                           |                       |                       |                       |                       |  |  |  |  |  |  |                                                              |       |            |
| Naphthalene #                                    | <0.1                  | 19.9 <sup>SV</sup>    | <0.1                  | <0.1                  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene #                                 | 0.035                 | <0.005 <sup>SV</sup>  | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene #                                   | 0.208                 | 2.543 <sup>SV</sup>   | 0.303                 | 0.103                 |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene #                                       | 0.061                 | 1.227 <sup>SV</sup>   | 0.105                 | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene #                                   | 0.065                 | 0.913 <sup>SV</sup>   | 0.014                 | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene #                                     | 0.062                 | 0.184 <sup>SV</sup>   | 0.009                 | 0.012                 |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene #                                   | 0.277                 | 0.098 <sup>SV</sup>   | 0.025                 | 0.016                 |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene #                                         | 0.313                 | 0.060 <sup>SV</sup>   | 0.019                 | 0.011                 |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                             | 0.142                 | <0.005 <sup>SV</sup>  | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene #                                       | 0.184                 | <0.005 <sup>SV</sup>  | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene #                           | 0.520                 | <0.008 <sup>SV</sup>  | <0.008                | <0.008                |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                                 | 0.284                 | <0.005 <sup>SV</sup>  | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #                            | 0.216                 | <0.005 <sup>SV</sup>  | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #                          | 0.059                 | <0.005 <sup>SV</sup>  | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                             | 0.255                 | <0.005 <sup>SV</sup>  | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total #                                   | 2.681                 | 24.925 <sup>SV</sup>  | 0.475                 | <0.173                |  |  |  |  |  |  | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                             | 0.374                 | <0.008 <sup>SV</sup>  | <0.008                | <0.008                |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                             | 0.146                 | <0.008 <sup>SV</sup>  | <0.008                | <0.008                |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery                         | 95                    | 69 <sup>SV</sup>      | 97                    | 93                    |  |  |  |  |  |  | <0                                                           | %     | TM4/PM30   |
| VOC TICs                                         | ND                    | -                     | ND                    | ND                    |  |  |  |  |  |  |                                                              | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #                    | <0.1                  | <0.1                  | <0.1                  | <0.1                  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Benzene #                                        | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Toluene #                                        | <5                    | <5                    | <5                    | <5                    |  |  |  |  |  |  | <5                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                                   | <1                    | <1                    | <1                    | <1                    |  |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                                     | <2                    | <2                    | <2                    | <2                    |  |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                                       | <1                    | <1                    | <1                    | <1                    |  |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 162001616-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/11922

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                                             | 1-12                 | 13-24                | 25-38                | 39-50                |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |                         |
|------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|--|--|--|--|--|--|--------------------------------------------------------------|-------|-------------------------|
| Sample ID                                                  | BH2520               | BH2514               | BH2516               | BH2513               |  |  |  |  |  |  |                                                              |       |                         |
| Depth                                                      | 2.90                 | 4.10                 | 3.50                 | 3.80                 |  |  |  |  |  |  |                                                              |       |                         |
| COC No / misc                                              |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
| Containers                                                 | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G | V H H N N P BOD PF G |  |  |  |  |  |  |                                                              |       |                         |
| Sample Date                                                | 10/07/2024           | 10/07/2024           | 10/07/2024           | 10/07/2024           |  |  |  |  |  |  |                                                              |       |                         |
| Sample Type                                                | Ground Water         | Ground Water         | Ground Water         | Ground Water         |  |  |  |  |  |  |                                                              |       |                         |
| Batch Number                                               | 1                    | 1                    | 1                    | 1                    |  |  |  |  |  |  |                                                              |       |                         |
| Date of Receipt                                            | 11/07/2024           | 11/07/2024           | 11/07/2024           | 11/07/2024           |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.              |
| Surrogate Recovery Toluene D8                              | 100                  | 101                  | 99                   | 107                  |  |  |  |  |  |  | <0                                                           | %     | TM15/PM10               |
| Surrogate Recovery 4-Bromofluorobenzene                    | 109                  | 104                  | 101                  | 107                  |  |  |  |  |  |  | <0                                                           | %     | TM15/PM10               |
| SVOC TICs                                                  | ND                   | -                    | ND                   | ND                   |  |  |  |  |  |  |                                                              | None  | TM16/PM30               |
| TPH CWG                                                    |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
| Aliphatics                                                 |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
| >C5-C6 (HS_1D_AL) #                                        | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >C6-C8 (HS_1D_AL) #                                        | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >C8-C10 (HS_1D_AL) #                                       | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >C10-C12 (EH_CU_1D_AL) #                                   | <5                   | <5                   | <5                   | <5                   |  |  |  |  |  |  | <5                                                           | ug/l  | TM5/PM16/PM30           |
| >C12-C16 (EH_CU_1D_AL) #                                   | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| >C16-C21 (EH_CU_1D_AL) #                                   | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| >C21-C35 (EH_CU_1D_AL) #                                   | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) #                  | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/TM55/PM12/PM16/PM30 |
| Aromatics                                                  |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
| >C5-EC7 (HS_1D_AR) #                                       | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >EC7-EC8 (HS_1D_AR) #                                      | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >EC8-EC10 (HS_1D_AR) #                                     | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM36/PM12               |
| >EC10-EC12 (EH_CU_1D_AR) #                                 | <5                   | <5                   | <5                   | <5                   |  |  |  |  |  |  | <5                                                           | ug/l  | TM5/PM16/PM30           |
| >EC12-EC16 (EH_CU_1D_AR) #                                 | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| >EC16-EC21 (EH_CU_1D_AR) #                                 | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| >EC21-EC35 (EH_CU_1D_AR) #                                 | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/PM16/PM30           |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                   | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/TM55/PM12/PM16/PM30 |
| Total aliphatics and aromatics(C5-35) (EH_CU+HS_1D_Total)* | <10                  | <10                  | <10                  | <10                  |  |  |  |  |  |  | <10                                                          | ug/l  | TM5/TM55/PM12/PM16/PM30 |
| Total Phenols HPLC                                         | <0.15                | <0.15                | <0.15                | <0.15                |  |  |  |  |  |  | <0.15                                                        | mg/l  | TM26/PM0                |
| Sulphate as SO4 #                                          | 84.4                 | 81.6                 | 55.2                 | 28.9                 |  |  |  |  |  |  | <0.5                                                         | mg/l  | TM38/PM0                |
| Chloride #                                                 | 35.2                 | 43.3                 | 51.1                 | 32.0                 |  |  |  |  |  |  | <0.3                                                         | mg/l  | TM38/PM0                |
| Nitrate as NO3 #                                           | 4.2                  | <0.2                 | 5.3                  | <0.2                 |  |  |  |  |  |  | <0.2                                                         | mg/l  | TM38/PM0                |
| Nitrite as NO2 #                                           | 0.03                 | <0.02                | 0.18                 | <0.02                |  |  |  |  |  |  | <0.02                                                        | mg/l  | TM38/PM0                |
| Ortho Phosphate as PO4 #                                   | 0.14                 | 0.10                 | 0.56                 | <0.06                |  |  |  |  |  |  | <0.06                                                        | mg/l  | TM38/PM0                |
| Total Cyanide #                                            | <0.01                | 0.02                 | <0.01                | 0.02                 |  |  |  |  |  |  | <0.01                                                        | mg/l  | TM89/PM0                |
| Ammoniacal Nitrogen as N #                                 | 0.12                 | 11.83                | 0.03                 | 5.53                 |  |  |  |  |  |  | <0.03                                                        | mg/l  | TM38/PM0                |
| Hexavalent Chromium                                        | <6                   | <6                   | <6                   | <6                   |  |  |  |  |  |  | <6                                                           | ug/l  | TM38/PM0                |
| Total Dissolved Chromium III                               | <6                   | <6                   | <6                   | <6                   |  |  |  |  |  |  | <6                                                           | ug/l  | NONE/NONE               |
| Total Alkalinity as CaCO3 #                                | 216                  | 868                  | 294                  | 1134                 |  |  |  |  |  |  | <1                                                           | mg/l  | TM75/PM0                |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |
|                                                            |                      |                      |                      |                      |  |  |  |  |  |  |                                                              |       |                         |

## Element Materials Technology

Client Name: Ramboll  
Reference: 162001616-003  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/11922

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN0<sub>3</sub>

| EMT Sample No.  | 1-12                  | 13-24                 | 25-38                 | 39-50                 |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |             |
|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--|--|--|--|--------------------------------------------------------------|-------|-------------|
| Sample ID       | BH2520                | BH2514                | BH2516                | BH2513                |  |  |  |  |  |  |                                                              |       |             |
| Depth           | 2.90                  | 4.10                  | 3.50                  | 3.80                  |  |  |  |  |  |  |                                                              |       |             |
| COC No / misc   |                       |                       |                       |                       |  |  |  |  |  |  |                                                              |       |             |
| Containers      | V H H N P B O D P F G | V H H N P B O D P F G | V H H N P B O D P F G | V H H N P B O D P F G |  |  |  |  |  |  |                                                              |       |             |
| Sample Date     | 10/07/2024            | 10/07/2024            | 10/07/2024            | 10/07/2024            |  |  |  |  |  |  |                                                              |       |             |
| Sample Type     | Ground Water          | Ground Water          | Ground Water          | Ground Water          |  |  |  |  |  |  |                                                              |       |             |
| Batch Number    | 1                     | 1                     | 1                     | 1                     |  |  |  |  |  |  |                                                              |       |             |
| Date of Receipt | 11/07/2024            | 11/07/2024            | 11/07/2024            | 11/07/2024            |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No.  |
| PFAAS           |                       |                       |                       |                       |  |  |  |  |  |  |                                                              |       |             |
| PFBA #          | 0.029 <sup>AD</sup>   | -                     | 0.013 <sup>AB</sup>   | 0.102 <sup>AE</sup>   |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeA #         | 0.031 <sup>AC</sup>   | -                     | 0.009 <sup>AB</sup>   | 0.055 <sup>AD</sup>   |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxA #         | 0.027 <sup>AC</sup>   | -                     | 0.007 <sup>AB</sup>   | 0.041 <sup>AD</sup>   |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpA #         | <0.010 <sup>AC</sup>  | -                     | 0.003                 | 0.018 <sup>AC</sup>   |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOA #          | 0.01290 <sup>AC</sup> | -                     | 0.01250               | 0.08780 <sup>AC</sup> |  |  |  |  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNA #          | <0.010 <sup>AC</sup>  | -                     | <0.001                | <0.010 <sup>AC</sup>  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDA #          | <0.010 <sup>AC</sup>  | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnA #         | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDoA           | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTrDA          | <0.006                | -                     | <0.006                | <0.006                |  |  |  |  |  |  | <0.006                                                       | ug/l  | TM135/PM122 |
| PFTeDA          | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxDA          | <0.01                 | -                     | <0.01                 | <0.01                 |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| PFODA           | <0.025                | -                     | <0.025                | <0.025                |  |  |  |  |  |  | <0.025                                                       | ug/l  | TM135/PM122 |
| PFBS #          | 0.114 <sup>AC</sup>   | -                     | 0.006                 | 0.021 <sup>AC</sup>   |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeS #         | <0.010 <sup>AC</sup>  | -                     | 0.001                 | <0.010 <sup>AC</sup>  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxS #         | <0.010 <sup>AC</sup>  | -                     | 0.007                 | 0.047 <sup>AC</sup>   |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpS #         | <0.001                | -                     | <0.001                | 0.001                 |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOS #          | 0.02430               | -                     | 0.01590               | 0.04950 <sup>AC</sup> |  |  |  |  |  |  | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNS            | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDS            | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnDS          | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDoDS          | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTrDS          | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X) | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-TA         | <0.02                 | -                     | <0.02                 | <0.02                 |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| DONA #          | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOPrA         | <0.010 <sup>AC</sup>  | -                     | 0.016 <sup>AB</sup>   | <0.010 <sup>AC</sup>  |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| NFDHA           | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOBA          | <0.001                | -                     | <0.005 <sup>AB</sup>  | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| PFECHS          | <0.010 <sup>AC</sup>  | -                     | 0.002                 | 0.023 <sup>AC</sup>   |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 3:3 FTCA        | <0.02                 | -                     | <0.02                 | <0.02                 |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| 5:3 FTCA        | <0.01                 | -                     | <0.01                 | <0.01                 |  |  |  |  |  |  | <0.01                                                        | ug/l  | TM135/PM122 |
| 7:3 FTCA        | <0.02                 | -                     | <0.02                 | <0.02                 |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| PFEESA          | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 9Cl-PF3ONS #    | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 11Cl-PF3OUdS    | <0.001                | -                     | <0.001                | <0.001                |  |  |  |  |  |  | <0.001                                                       | ug/l  | TM135/PM122 |
| 4:2 FTS         | <0.005                | -                     | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| 6:2 FTS         | <0.005                | -                     | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| 8:2 FTS         | <0.005                | -                     | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| FBSA            | <0.02                 | -                     | <0.02                 | <0.02                 |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| FHxSA           | <0.02                 | -                     | <0.02                 | <0.02                 |  |  |  |  |  |  | <0.02                                                        | ug/l  | TM135/PM122 |
| FOSA            | <0.005                | -                     | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |
| N-MeFOSA        | <0.005                | -                     | <0.005                | <0.005                |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM135/PM122 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 162001616-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/11922

Report : Liquid

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

[illegible]

SVOC Report : Liquid

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

Client Name: Ramboll  
Reference: 162001616-003  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/11922

VOC Report : Liquid

| EMT Sample No.                 | 1-12                    | 25-38                   | 39-50                   |  |  |  |  |  |  |      |      |           |
|--------------------------------|-------------------------|-------------------------|-------------------------|--|--|--|--|--|--|------|------|-----------|
| Sample ID                      | BH2520                  | BH2516                  | BH2513                  |  |  |  |  |  |  |      |      |           |
| Depth                          | 2.90                    | 3.50                    | 3.80                    |  |  |  |  |  |  |      |      |           |
| COC No / misc                  |                         |                         |                         |  |  |  |  |  |  |      |      |           |
| Containers                     | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G |  |  |  |  |  |  |      |      |           |
| Sample Date                    | 10/07/2024              | 10/07/2024              | 10/07/2024              |  |  |  |  |  |  |      |      |           |
| Sample Type                    | Ground Water            | Ground Water            | Ground Water            |  |  |  |  |  |  |      |      |           |
| Batch Number                   | 1                       | 1                       | 1                       |  |  |  |  |  |  |      |      |           |
| Date of Receipt                | 11/07/2024              | 11/07/2024              | 11/07/2024              |  |  |  |  |  |  |      |      |           |
|                                | LOD/LOR                 | Units                   | Method No.              |  |  |  |  |  |  |      |      |           |
| VOC MS                         |                         |                         |                         |  |  |  |  |  |  |      |      |           |
| Dichlorodifluoromethane        | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Methyl Tertiary Butyl Ether #  | <0.1                    | <0.1                    | <0.1                    |  |  |  |  |  |  | <0.1 | ug/l | TM15/PM10 |
| Chloromethane #                | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Vinyl Chloride #               | <0.1                    | <0.1                    | <0.1                    |  |  |  |  |  |  | <0.1 | ug/l | TM15/PM10 |
| Bromomethane                   | <1                      | <1                      | <1                      |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Chloroethane #                 | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Trichlorofluoromethane #       | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1-Dichloroethene (1,1 DCE) # | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Carbon Disulphide #            | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Dichloromethane (DCM) #        | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| trans-1-2-Dichloroethene #     | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1-Dichloroethane #           | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| cis-1-2-Dichloroethene #       | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 2,2-Dichloropropane            | <1                      | <1                      | <1                      |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Bromochloromethane #           | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Chloroform #                   | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,1-Trichloroethane #        | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1-Dichloropropene #          | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Carbon tetrachloride #         | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2-Dichloroethane #           | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Benzene #                      | <0.5                    | <0.5                    | <0.5                    |  |  |  |  |  |  | <0.5 | ug/l | TM15/PM10 |
| Trichloroethene (TCE) #        | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dichloropropane #          | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Dibromomethane #               | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Bromodichloromethane #         | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| cis-1-3-Dichloropropene        | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Toluene #                      | <5                      | <5                      | <5                      |  |  |  |  |  |  | <5   | ug/l | TM15/PM10 |
| trans-1-3-Dichloropropene      | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,2-Trichloroethane #        | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Tetrachloroethene (PCE) #      | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3-Dichloropropane #          | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Dibromochloromethane #         | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2-Dibromoethane #            | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Chlorobenzene #                | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,1,1,2-Tetrachloroethane #    | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Ethylbenzene #                 | <1                      | <1                      | <1                      |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| m/p-Xylene #                   | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| o-Xylene #                     | <1                      | <1                      | <1                      |  |  |  |  |  |  | <1   | ug/l | TM15/PM10 |
| Styrene                        | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Bromoform #                    | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| Isopropylbenzene #             | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,1,2,2-Tetrachloroethane      | <4                      | <4                      | <4                      |  |  |  |  |  |  | <4   | ug/l | TM15/PM10 |
| Bromobenzene #                 | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,3-Trichloropropane #       | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Propylbenzene #                | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 2-Chlorotoluene #              | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3,5-Trimethylbenzene #       | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 4-Chlorotoluene #              | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| tert-Butylbenzene #            | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2,4-Trimethylbenzene #       | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| sec-Butylbenzene #             | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 4-Isopropyltoluene #           | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,3-Dichlorobenzene #          | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,4-Dichlorobenzene #          | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| n-Butylbenzene #               | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dichlorobenzene #          | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| 1,2-Dibromo-3-chloropropane    | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,4-Trichlorobenzene         | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Hexachlorobutadiene            | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Naphthalene                    | <2                      | <2                      | <2                      |  |  |  |  |  |  | <2   | ug/l | TM15/PM10 |
| 1,2,3-Trichlorobenzene         | <3                      | <3                      | <3                      |  |  |  |  |  |  | <3   | ug/l | TM15/PM10 |
| Surrogate Recovery Toluene D8  | 100                     | 99                      | 107                     |  |  |  |  |  |  | <0   | %    | TM15/PM10 |

Please see attached notes for all abbreviations and acronyms



VOC Report : Liquid

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

### Notification of Deviating Samples

|                     |               |
|---------------------|---------------|
| <b>Client Name:</b> | Ramboll       |
| <b>Reference:</b>   | 162001616-003 |
| <b>Location:</b>    | Manor Farm    |
| <b>Contact:</b>     | Eleanor Brown |

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/11922

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x3 Dilution                                                                                                                                                              |
| AB      | x5 Dilution                                                                                                                                                              |
| AC      | x10 Dilution                                                                                                                                                             |
| AD      | x20 Dilution                                                                                                                                                             |
| AE      | x50 Dilution                                                                                                                                                             |
| AF      | x300 Dilution                                                                                                                                                            |



# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11922

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                         | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                  | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.                                                                                                                  | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.  | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                                                                                                                                     | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                              | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                   | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                   | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                       | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                       | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                                                                                                                                  | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |



## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11922

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                     | Prep Method No. (if appropriate) | Description                                                                                              | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested. | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis. | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                          | PM0                              | No preparation is required.                                                                              |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I                          | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                              | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                 | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.                                                                                                    | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                                                                                                                       | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                                                                                                                       | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                                                                                                                                          | PM0                              | No preparation is required.                                                                              | Yes                   |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                                                                                                                        | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                           |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/11922

| Test Method No. | Description                                                                                                                                                                                                        | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                           | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                                                                     | Yes                     |                        |                                                 |                              |
| TM170           | Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma – Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                     |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                           | PM0                              | No preparation is required.                                                                                                                                        |                         |                        |                                                 |                              |
| NONE            | No Method Code                                                                                                                                                                                                     | NONE                             | No Method Code                                                                                                                                                     |                         |                        |                                                 |                              |
| Subcontracted   | See attached subcontractor report for accreditation status and provider.                                                                                                                                           |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                    |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |



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Ramboll  
240 Blackfriars Road  
London  
United Kingdom  
SE1 8NW



4225



**Attention :** Eleanor Brown  
**Date :** 30th October, 2024  
**Your reference :** 1620016166-003  
**Our reference :** Test Report 24/17232 Batch 1  
**Location :** Manor Farm  
**Date samples received :** 10th October, 2024  
**Status :** Final Report  
**Issue :** 202410301217

Eleven samples were received for analysis on 10th October, 2024 of which eleven were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 45.902 kg of CO2

Scope 1&2&3 emissions - 108.477 kg of CO2

**Authorised By:**

**Simon Gomery BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                                   | 1-12               | 13-24              | 25-36              | 37-48                | 49-60                | 61-72              | 73-84              | 85-96              | 97-108               | 109-120            | Please see attached notes for all abbreviations and acronyms |       |            |
|--------------------------------------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------------------------------------------------|-------|------------|
| Sample ID                                        | SW01               | SW02               | SW03               | BH2513               | BH2527               | BH2520             | BH2517             | BH2518             | BH2514               | BH2516             |                                                              |       |            |
| Depth                                            |                    |                    |                    | 1.77                 | 1.80                 | 3.10               | 4.20               | 1.50               | 3.60                 | 2.90               |                                                              |       |            |
| COC No / misc                                    |                    |                    |                    |                      |                      |                    |                    |                    |                      |                    |                                                              |       |            |
| Containers                                       | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G   | V H H N P BOD PF G   | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G   | V H H N P BOD PF G |                                                              |       |            |
| Sample Date                                      | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024           | 09/10/2024           | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024           | 09/10/2024         |                                                              |       |            |
| Sample Type                                      | Surface Water      | Surface Water      | Surface Water      | Ground Water         | Ground Water         | Ground Water       | Ground Water       | Ground Water       | Ground Water         | Ground Water       |                                                              |       |            |
| Batch Number                                     | 1                  | 1                  | 1                  | 1                    | 1                    | 1                  | 1                  | 1                  | 1                    | 1                  | LOD/LOR                                                      | Units | Method No. |
| Date of Receipt                                  | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024           | 10/10/2024           | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024           | 10/10/2024         |                                                              |       |            |
| Dissolved Arsenic #                              | 1.3                | 1.2                | 1.1                | 4.7                  | 14.5                 | 2.6                | 7.9                | 3.8                | 4.0                  | 2.9                | <0.9                                                         | ug/l  | TM170/PM14 |
| Dissolved Beryllium #                            | <0.5               | <0.5               | <0.5               | <0.5                 | <0.5                 | <0.5               | <0.5               | <0.5               | <0.5                 | <0.5               | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Boron #                                | 63                 | 71                 | 49                 | 546                  | 284                  | 122                | 2207 <sup>AC</sup> | 168                | 1202 <sup>AC</sup>   | 439                | <12                                                          | ug/l  | TM170/PM14 |
| Dissolved Cadmium #                              | <0.03              | <0.03              | <0.03              | <0.03                | <0.03                | 0.07               | <0.03              | <0.03              | <0.03                | <0.03              | <0.03                                                        | ug/l  | TM170/PM14 |
| Total Dissolved Chromium #                       | 1.7                | 0.2                | 1.2                | 0.7                  | 0.6                  | 0.5                | 0.9                | 6.5                | 0.8                  | 8.9                | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Copper #                               | 3                  | 2                  | 2                  | 2                    | <1                   | 12                 | <1                 | 3                  | <1                   | 3                  | <1                                                           | ug/l  | TM170/PM14 |
| Total Dissolved Iron #                           | 24.4               | 23.9               | 20.9               | 2093.0 <sup>AC</sup> | 4943.3 <sup>AE</sup> | 14.3               | 494.6              | 188.2              | 2055.8 <sup>AC</sup> | 34.7               | <4.7                                                         | ug/l  | TM170/PM14 |
| Dissolved Lead #                                 | <0.4               | <0.4               | <0.4               | <0.4                 | <0.4                 | 1.8                | <0.4               | <0.4               | <0.4                 | <0.4               | <0.4                                                         | ug/l  | TM170/PM14 |
| Dissolved Mercury #                              | <0.5               | <0.5               | <0.5               | <0.5                 | <0.5                 | <0.5               | <0.5               | <0.5               | <0.5                 | <0.5               | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Nickel #                               | 1.9                | 1.8                | 1.7                | 3.8                  | 4.3                  | 5.9                | 2.8                | 2.9                | 2.4                  | 5.4                | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Selenium #                             | <1.2               | <1.2               | <1.2               | <1.2                 | <1.2                 | <1.2               | <1.2               | <1.2               | <1.2                 | <1.2               | <1.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Vanadium #                             | 1.9                | 1.9                | 2.1                | 3.9                  | 1.5                  | 8.3                | 3.0                | 9.8                | 2.3                  | 6.4                | <0.6                                                         | ug/l  | TM170/PM14 |
| Dissolved Zinc #                                 | 7.0                | 6.5                | 6.7                | 6.0                  | 2.9                  | 20.3               | 3.6                | 3.7                | 1.9                  | 5.5                | <1.5                                                         | ug/l  | TM170/PM14 |
| Total Hardness Dissolved (as CaCO <sub>3</sub> ) | 266                | 276                | 277                | 1169                 | 953                  | 288                | 624                | 287                | 844 <sup>AC</sup>    | 685 <sup>AC</sup>  | <1                                                           | mg/l  | TM30/PM14  |
| PAH MS                                           |                    |                    |                    |                      |                      |                    |                    |                    |                      |                    |                                                              |       |            |
| Naphthalene #                                    | <0.1               | <0.1               | <0.1               | <0.1                 | <0.1                 | <0.1               | <0.1               | <0.1               | >>17.7               | <0.1               | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene #                                 | 0.009              | <0.005             | <0.005             | 0.009                | <0.005               | 0.030              | 0.024              | 0.007              | <0.005               | 0.099              | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene #                                   | <0.005             | <0.005             | <0.005             | 0.196                | 0.007                | 0.062              | 1.897              | 0.008              | 4.325                | 3.548              | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene #                                       | <0.005             | <0.005             | <0.005             | 0.015                | 0.005                | 0.015              | 0.070              | <0.005             | 2.068                | 0.699              | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene #                                   | 0.021              | 0.005              | 0.006              | 0.009                | 0.008                | 0.035              | 0.506              | 0.005              | 1.465                | 0.067              | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene #                                     | 0.016              | <0.005             | <0.005             | 0.019                | 0.007                | 0.062              | 0.134              | 0.026              | 0.358                | 0.051              | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene #                                   | 0.109              | 0.012              | 0.013              | 0.041                | 0.012                | 0.170              | 0.281              | 0.014              | 0.232                | 0.420              | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene #                                         | 0.108              | 0.013              | 0.012              | 0.033                | 0.012                | 0.192              | 0.175              | 0.014              | 0.141                | 0.236              | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                             | 0.068              | 0.006              | 0.005              | 0.005                | 0.006                | 0.105              | 0.012              | 0.007              | 0.005                | 0.007              | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene #                                       | 0.088              | 0.005              | 0.007              | 0.006                | 0.006                | 0.159              | 0.015              | 0.008              | 0.005                | 0.005              | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene #                           | 0.214              | 0.010              | 0.013              | 0.011                | 0.011                | 0.484              | 0.010              | 0.017              | <0.008               | <0.008             | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                                 | 0.110              | 0.005              | 0.006              | 0.006                | 0.005                | 0.217              | 0.005              | 0.009              | <0.005               | <0.005             | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #                            | 0.092              | <0.005             | 0.005              | 0.005                | <0.005               | 0.208              | <0.005             | 0.007              | <0.005               | <0.005             | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #                          | 0.018              | <0.005             | <0.005             | <0.005               | <0.005               | 0.038              | <0.005             | <0.005             | <0.005               | <0.005             | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                             | 0.092              | 0.005              | 0.006              | 0.005                | <0.005               | 0.229              | <0.005             | 0.008              | <0.005               | <0.005             | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total #                                   | 0.945              | <0.173             | <0.173             | 0.360                | <0.173               | 2.006              | 3.129              | <0.173             | 26.299               | 5.132              | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                             | 0.154              | <0.008             | 0.009              | <0.008               | <0.008               | 0.348              | <0.008             | 0.012              | <0.008               | <0.008             | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                             | 0.060              | <0.008             | <0.008             | <0.008               | <0.008               | 0.136              | <0.008             | <0.008             | <0.008               | <0.008             | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery                         | 63 <sup>SV</sup>   | 88                 | 80                 | 85                   | 76                   | 82                 | 78                 | 79                 | 82                   | 86                 | <0                                                           | %     | TM4/PM30   |
| VOC TICs                                         | ND                 | ND                 | -                  | ND                   | ND                   | ND                 | ND                 | ND                 | -                    | ND                 |                                                              | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #                    | <0.1               | <0.1               | -                  | <0.1                 | <0.1                 | <0.1               | <0.1               | <0.1               | -                    | <0.1               | <0.1                                                         | ug/l  | TM15/PM10  |
| Benzene #                                        | <0.5               | <0.5               | -                  | <0.5                 | <0.5                 | <0.5               | <0.5               | <0.5               | -                    | <0.5               | <0.5                                                         | ug/l  | TM15/PM10  |
| Toluene #                                        | <5                 | <5                 | -                  | <5                   | <5                   | <5                 | <5                 | <5                 | -                    | <5                 | <5                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                                   | <1                 | <1                 | -                  | <1                   | <1                   | <1                 | <1                 | <1                 | -                    | <1                 | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                                     | <2                 | <2                 | -                  | <2                   | <2                   | <2                 | <2                 | <2                 | -                    | <2                 | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                                       | <1                 | <1                 | -                  | <1                   | <1                   | <1                 | <1                 | <1                 | -                    | <1                 | <1                                                           | ug/l  | TM15/PM10  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                                               | 1-12               | 13-24              | 25-36              | 37-48              | 49-60              | 61-72              | 73-84              | 85-96              | 97-108             | 109-120            | Please see attached notes for all abbreviations and acronyms |       |               |
|--------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------------------------------------------|-------|---------------|
| Sample ID                                                    | SW01               | SW02               | SW03               | BH2513             | BH2527             | BH2520             | BH2517             | BH2518             | BH2514             | BH2516             |                                                              |       |               |
| Depth                                                        |                    |                    |                    | 1.77               | 1.80               | 3.10               | 4.20               | 1.50               | 3.60               | 2.90               |                                                              |       |               |
| COC No / misc                                                |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                                                              |       |               |
| Containers                                                   | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G | V H H N P BOD PF G |                                                              |       |               |
| Sample Date                                                  | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024         | 09/10/2024         |                                                              |       |               |
| Sample Type                                                  | Surface Water      | Surface Water      | Surface Water      | Ground Water       | Ground Water       | Ground Water       | Ground Water       | Ground Water       | Ground Water       | Ground Water       |                                                              |       |               |
| Batch Number                                                 | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  |                                                              |       |               |
| Date of Receipt                                              | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024         | 10/10/2024         | LOD/LOR                                                      | Units | Method No.    |
| Surrogate Recovery Toluene D8                                | 97                 | 91                 | -                  | 94                 | 92                 | 98                 | 95                 | 95                 | -                  | 76                 | <0                                                           | %     | TM15/PM10     |
| Surrogate Recovery 4-Bromofluorobenzene                      | 102                | 98                 | -                  | 98                 | 96                 | 101                | 100                | 101                | -                  | 84                 | <0                                                           | %     | TM15/PM10     |
| SVOC TICs                                                    | ND                 | ND                 | -                  | ND                 | ND                 | ND                 | ND                 | ND                 | -                  | ND                 |                                                              | None  | TM16/PM30     |
| MTBE #                                                       | -                  | -                  | <5                 | -                  | -                  | -                  | -                  | -                  | <5                 | -                  | <5                                                           | ug/l  | TM36/PM12     |
| Benzene #                                                    | -                  | -                  | <5                 | -                  | -                  | -                  | -                  | -                  | <5                 | -                  | <5                                                           | ug/l  | TM36/PM12     |
| Toluene #                                                    | -                  | -                  | <5                 | -                  | -                  | -                  | -                  | -                  | <5                 | -                  | <5                                                           | ug/l  | TM36/PM12     |
| Ethylbenzene #                                               | -                  | -                  | <5                 | -                  | -                  | -                  | -                  | -                  | <5                 | -                  | <5                                                           | ug/l  | TM36/PM12     |
| m/p-Xylene #                                                 | -                  | -                  | <5                 | -                  | -                  | -                  | -                  | -                  | <5                 | -                  | <5                                                           | ug/l  | TM36/PM12     |
| o-Xylene #                                                   | -                  | -                  | <5                 | -                  | -                  | -                  | -                  | -                  | <5                 | -                  | <5                                                           | ug/l  | TM36/PM12     |
| TPH CWG                                                      |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                                                              |       |               |
| Aliphatics                                                   |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                                                              |       |               |
| >C5-C6 (HS_1D_AL) #                                          | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM36/PM12     |
| >C6-C8 (HS_1D_AL) #                                          | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM36/PM12     |
| >C8-C10 (HS_1D_AL) #                                         | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM36/PM12     |
| >C10-C12 (EH_CU_1D_AL) #                                     | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                 | <5                                                           | ug/l  | TM5/PM16/PM30 |
| >C12-C16 (EH_CU_1D_AL) #                                     | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >C16-C21 (EH_CU_1D_AL) #                                     | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >C21-C35 (EH_CU_1D_AL) #                                     | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) #                    | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Aromatics                                                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                                                              |       |               |
| >C5-EC7 (HS_1D_AR) #                                         | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM36/PM12     |
| >EC7-EC8 (HS_1D_AR) #                                        | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM36/PM12     |
| >EC8-EC10 (HS_1D_AR) #                                       | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM36/PM12     |
| >EC10-EC12 (EH_CU_1D_AR) #                                   | <5 <sup>SV</sup>   | <5                 | <5 <sup>SV</sup>   | <5 <sup>SV</sup>   | <5 <sup>SV</sup>   | <5                 | <5 <sup>SV</sup>   | <5 <sup>SV</sup>   | <5                 | <5 <sup>SV</sup>   | <5                                                           | ug/l  | TM5/PM16/PM30 |
| >EC12-EC16 (EH_CU_1D_AR) #                                   | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >EC16-EC21 (EH_CU_1D_AR) #                                   | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| >EC21-EC35 (EH_CU_1D_AR) #                                   | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10 <sup>SV</sup>  | <10                | <10 <sup>SV</sup>  | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                     | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total aliphatics and aromatics (C5-35) (EH_CU+HS_1D_Total) # | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                | <10                                                          | ug/l  | TM5/PM16/PM30 |
| Total Phenols HPLC                                           | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.15              | <0.15                                                        | mg/l  | TM26/PM0      |
| Sulphate as SO <sub>4</sub> #                                | 42.2               | 37.6               | 36.9               | 192.2              | 403.5              | 74.0               | 18.8               | 113.6              | 247.2              | 204.7              | <0.5                                                         | mg/l  | TM38/PM0      |
| Chloride #                                                   | 47.2               | 48.4               | 48.2               | 21.8               | 10.0               | 12.1               | 217.5              | 9.6                | 24.5               | 40.9               | <0.3                                                         | mg/l  | TM38/PM0      |
| Nitrate as NO <sub>3</sub> #                                 | 24.8               | 28.7               | 28.6               | <0.2               | <0.2               | 3.5                | <0.2               | <0.2               | <0.2               | 2.7                | <0.2                                                         | mg/l  | TM38/PM0      |
| Nitrite as NO <sub>2</sub> #                                 | <0.02              | 0.02               | 0.03               | <0.02              | <0.02              | <0.02              | <0.02              | <0.02              | <0.02              | <0.02              | <0.02                                                        | mg/l  | TM38/PM0      |
| Ortho Phosphate as PO <sub>4</sub> #                         | 1.03               | 0.84               | 0.76               | <0.06              | <0.06              | 0.18               | 0.95               | 0.10               | <0.06              | 0.80               | <0.06                                                        | mg/l  | TM38/PM0      |
| Total Cyanide #                                              | <0.01              | <0.01              | <0.01              | 0.03               | 0.03               | <0.01              | 0.02               | <0.01              | <0.01              | 0.02               | <0.01                                                        | mg/l  | TM89/PM0      |
| Ammoniacal Nitrogen as N #                                   | 0.03               | 0.03               | 0.03               | 3.75               | 2.30               | 0.04               | 13.89              | 0.68               | 5.08               | 1.26               | <0.03                                                        | mg/l  | TM38/PM0      |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

[illegible]

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.  | 1-12                | 13-24               | 25-36               | 37-48               | 49-60               | 61-72               | 73-84               | 85-96               | 97-108              | 109-120             | Please see attached notes for all abbreviations and acronyms |       |             |
|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------------------------------------------------|-------|-------------|
| Sample ID       | SW01                | SW02                | SW03                | BH2513              | BH2527              | BH2520              | BH2517              | BH2518              | BH2514              | BH2516              |                                                              |       |             |
| Depth           |                     |                     |                     | 1.77                | 1.80                | 3.10                | 4.20                | 1.50                | 3.60                | 2.90                |                                                              |       |             |
| COC No / misc   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                              |       |             |
| Containers      | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G |                                                              |       |             |
| Sample Date     | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024          |                                                              |       |             |
| Sample Type     | Surface Water       | Surface Water       | Surface Water       | Ground Water        | Ground Water        | Ground Water        | Ground Water        | Ground Water        | Ground Water        | Ground Water        |                                                              |       |             |
| Batch Number    | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   | 1                   |                                                              |       |             |
| Date of Receipt | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024          | LOD/LOR                                                      | Units | Method No.  |
| PFAAS           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                              |       |             |
| PFBA            | -                   | -                   | -                   | -                   | -                   | -                   | 0.31 <sup>AC</sup>  | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFPeA           | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxA           | -                   | -                   | -                   | -                   | -                   | -                   | 0.06                | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHpA           | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFOA            | -                   | -                   | -                   | -                   | -                   | -                   | 0.10                | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFNA            | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDA            | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFUnA           | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDaA           | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTrDA          | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTeDA          | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxDA          | -                   | -                   | -                   | -                   | -                   | -                   | <0.1                | -                   | -                   | -                   | <0.1                                                         | ug/l  | TM135/PM121 |
| PFODA           | -                   | -                   | -                   | -                   | -                   | -                   | <0.1                | -                   | -                   | -                   | <0.1                                                         | ug/l  | TM135/PM121 |
| PFBS            | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFPeS           | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHxS           | -                   | -                   | -                   | -                   | -                   | -                   | 0.12                | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFHpS           | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFOS            | -                   | -                   | -                   | -                   | -                   | -                   | 3.23                | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFNS            | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDS            | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFUnDS          | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFDaDS          | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFTrDS          | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| HFPO-DA (Gen X) | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| HFPO-TA         | -                   | -                   | -                   | -                   | -                   | -                   | <1                  | -                   | -                   | -                   | <1                                                           | ug/l  | TM135/PM121 |
| DONA            | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFMOPrA         | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| NFDHA           | -                   | -                   | -                   | -                   | -                   | -                   | <0.1                | -                   | -                   | -                   | <0.1                                                         | ug/l  | TM135/PM121 |
| PFMOBA          | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| PFECHS          | -                   | -                   | -                   | -                   | -                   | -                   | 0.34                | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| 3:3 FTCA        | -                   | -                   | -                   | -                   | -                   | -                   | <0.1                | -                   | -                   | -                   | <0.1                                                         | ug/l  | TM135/PM121 |
| 5:3 FTCA        | -                   | -                   | -                   | -                   | -                   | -                   | <0.5                | -                   | -                   | -                   | <0.5                                                         | ug/l  | TM135/PM121 |
| 7:3 FTCA        | -                   | -                   | -                   | -                   | -                   | -                   | <0.1                | -                   | -                   | -                   | <0.1                                                         | ug/l  | TM135/PM121 |
| PFEESA          | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| 9Cl-PF3ONS      | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| 11Cl-PF3OUdS    | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| 4:2 FTS         | -                   | -                   | -                   | -                   | -                   | -                   | <0.2                | -                   | -                   | -                   | <0.2                                                         | ug/l  | TM135/PM121 |
| 6:2 FTS         | -                   | -                   | -                   | -                   | -                   | -                   | <0.2                | -                   | -                   | -                   | <0.2                                                         | ug/l  | TM135/PM121 |
| 8:2 FTS         | -                   | -                   | -                   | -                   | -                   | -                   | <0.2                | -                   | -                   | -                   | <0.2                                                         | ug/l  | TM135/PM121 |
| FBSA            | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| FHxSA           | -                   | -                   | -                   | -                   | -                   | -                   | <0.05               | -                   | -                   | -                   | <0.05                                                        | ug/l  | TM135/PM121 |
| FOSA            | -                   | -                   | -                   | -                   | -                   | -                   | <1                  | -                   | -                   | -                   | <1                                                           | ug/l  | TM135/PM121 |
| N-MeFOSA        | -                   | -                   | -                   | -                   | -                   | -                   | <1                  | -                   | -                   | -                   | <1                                                           | ug/l  | TM135/PM121 |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.          | 1-12                | 13-24               | 25-36               | 37-48                 | 49-60                 | 61-72                 | 73-84               | 85-96                 | 97-108              | 109-120               | Please see attached notes for all abbreviations and acronyms |       |             |
|-------------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|--------------------------------------------------------------|-------|-------------|
| Sample ID               | SW01                | SW02                | SW03                | BH2513                | BH2527                | BH2520                | BH2517              | BH2518                | BH2514              | BH2516                |                                                              |       |             |
| Depth                   |                     |                     |                     | 1.77                  | 1.80                  | 3.10                  | 4.20                | 1.50                  | 3.60                | 2.90                  |                                                              |       |             |
| COC No / misc           |                     |                     |                     |                       |                       |                       |                     |                       |                     |                       |                                                              |       |             |
| Containers              | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G | V H H N P BOD P F G   | V H H N P BOD P F G   | V H H N P BOD P F G   | V H H N P BOD P F G | V H H N P BOD P F G   | V H H N P BOD P F G | V H H N P BOD P F G   |                                                              |       |             |
| Sample Date             | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024            | 09/10/2024            | 09/10/2024            | 09/10/2024          | 09/10/2024            | 09/10/2024          | 09/10/2024            |                                                              |       |             |
| Sample Type             | Surface Water       | Surface Water       | Surface Water       | Ground Water          | Ground Water          | Ground Water          | Ground Water        | Ground Water          | Ground Water        | Ground Water          |                                                              |       |             |
| Batch Number            | 1                   | 1                   | 1                   | 1                     | 1                     | 1                     | 1                   | 1                     | 1                   | 1                     |                                                              |       |             |
| Date of Receipt         | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024            | 10/10/2024            | 10/10/2024            | 10/10/2024          | 10/10/2024            | 10/10/2024          | 10/10/2024            | LOD/LOR                                                      | Units | Method No.  |
| PFAAS Continued         |                     |                     |                     |                       |                       |                       |                     |                       |                     |                       |                                                              |       |             |
| N-EtFOSA                | -                   | -                   | -                   | -                     | -                     | -                     | <1                  | -                     | -                   | -                     | <1                                                           | ug/l  | TM135/PM121 |
| Me-FOSE                 | -                   | -                   | -                   | -                     | -                     | -                     | <0.1                | -                     | -                   | -                     | <0.1                                                         | ug/l  | TM135/PM121 |
| Et-FOSE                 | -                   | -                   | -                   | -                     | -                     | -                     | <0.1                | -                     | -                   | -                     | <0.1                                                         | ug/l  | TM135/PM121 |
| N-MeFOSAA               | -                   | -                   | -                   | -                     | -                     | -                     | <1                  | -                     | -                   | -                     | <1                                                           | ug/l  | TM135/PM121 |
| N-EtFOSAA               | -                   | -                   | -                   | -                     | -                     | -                     | <1                  | -                     | -                   | -                     | <1                                                           | ug/l  | TM135/PM121 |
| 8:2diPAP                | -                   | -                   | -                   | -                     | -                     | -                     | <0.2                | -                     | -                   | -                     | <0.2                                                         | ug/l  | TM135/PM121 |
| FOUEA                   | -                   | -                   | -                   | -                     | -                     | -                     | <1                  | -                     | -                   | -                     | <1                                                           | ug/l  | TM135/PM121 |
| PFBA <sup>#</sup>       | 0.006 <sup>AC</sup> | 0.005 <sup>AC</sup> | -                   | 0.026 <sup>AE</sup>   | 0.055 <sup>AE</sup>   | <0.010 <sup>AE</sup>  | -                   | <0.010 <sup>AE</sup>  | -                   | 0.024 <sup>AE</sup>   | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeA <sup>#</sup>      | 0.006 <sup>AC</sup> | 0.006               | -                   | 0.023 <sup>AE</sup>   | 0.017 <sup>AE</sup>   | 0.010 <sup>AC</sup>   | -                   | <0.010 <sup>AE</sup>  | -                   | 0.070 <sup>AC</sup>   | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxA <sup>#</sup>      | 0.007               | 0.006               | -                   | 0.026 <sup>AC</sup>   | 0.010 <sup>AC</sup>   | 0.011 <sup>AC</sup>   | -                   | 0.008 <sup>AC</sup>   | -                   | 0.050 <sup>AC</sup>   | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpA <sup>#</sup>      | 0.003               | 0.003               | -                   | 0.009 <sup>AC</sup>   | 0.006                 | <0.005 <sup>AC</sup>  | -                   | <0.005 <sup>AC</sup>  | -                   | 0.022 <sup>AC</sup>   | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOA <sup>#</sup>       | 0.00740             | 0.00690             | -                   | 0.03530               | 0.02280               | 0.00340 <sup>AC</sup> | -                   | 0.00720 <sup>AC</sup> | -                   | 0.04910 <sup>AC</sup> | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNA <sup>#</sup>       | <0.001              | <0.001              | -                   | 0.001                 | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDA <sup>#</sup>       | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnA <sup>#</sup>      | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDaA                   | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTrDA                  | <0.006              | <0.006              | -                   | <0.006                | <0.006                | <0.006                | -                   | <0.006                | -                   | <0.006                | <0.006                                                       | ug/l  | TM135/PM122 |
| PFTeDA                  | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxDA                  | <0.01               | <0.01               | -                   | <0.01                 | <0.01                 | <0.01                 | -                   | <0.01                 | -                   | <0.01                 | <0.01                                                        | ug/l  | TM135/PM122 |
| PFODA                   | <0.025              | <0.025              | -                   | <0.025                | <0.025                | <0.025                | -                   | <0.025                | -                   | <0.025                | <0.025                                                       | ug/l  | TM135/PM122 |
| PFBS <sup>#</sup>       | 0.005               | 0.004               | -                   | 0.029 <sup>AC</sup>   | 0.014 <sup>AC</sup>   | 0.056 <sup>AC</sup>   | -                   | 0.015                 | -                   | 0.014                 | <0.001                                                       | ug/l  | TM135/PM122 |
| PFPeS <sup>#</sup>      | <0.001              | <0.001              | -                   | <0.005 <sup>AC</sup>  | <0.005 <sup>AC</sup>  | 0.001                 | -                   | 0.001                 | -                   | 0.005                 | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHxS <sup>#</sup>      | 0.005               | 0.004               | -                   | 0.037                 | 0.007                 | 0.002                 | -                   | 0.010                 | -                   | 0.027                 | <0.001                                                       | ug/l  | TM135/PM122 |
| PFHpS <sup>#</sup>      | <0.001              | <0.001              | -                   | 0.002                 | 0.002                 | <0.001                | -                   | <0.001                | -                   | 0.001                 | <0.001                                                       | ug/l  | TM135/PM122 |
| PFOS <sup>#</sup>       | 0.01040             | 0.01120             | -                   | 0.05670 <sup>AC</sup> | 0.03590 <sup>AC</sup> | 0.01680               | -                   | 0.02970 <sup>AC</sup> | -                   | 0.02470               | <0.00065                                                     | ug/l  | TM135/PM122 |
| PFNS                    | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDS                    | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFUnDS                  | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFDoDS                  | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFTrDS                  | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X)         | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| HFPO-TA                 | <0.02               | <0.02               | -                   | 0.02                  | <0.02                 | <0.02                 | -                   | <0.02                 | -                   | <0.02                 | <0.02                                                        | ug/l  | TM135/PM122 |
| DONA <sup>#</sup>       | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOPrA                 | <0.001              | <0.001              | -                   | 0.012 <sup>AE</sup>   | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| NFDHA                   | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFMOBA                  | <0.001              | <0.001              | -                   | 0.021 <sup>AE</sup>   | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| PFECHS                  | <0.001              | <0.001              | -                   | 0.009                 | 0.003                 | 0.002                 | -                   | 0.004                 | -                   | 0.003                 | <0.001                                                       | ug/l  | TM135/PM122 |
| 3:3 FTCA                | <0.02               | <0.02               | -                   | <0.02                 | <0.02                 | <0.02                 | -                   | <0.02                 | -                   | <0.02                 | <0.02                                                        | ug/l  | TM135/PM122 |
| 5:3 FTCA                | <0.01               | <0.01               | -                   | <0.01                 | <0.01                 | <0.01                 | -                   | <0.01                 | -                   | <0.01                 | <0.01                                                        | ug/l  | TM135/PM122 |
| 7:3 FTCA                | <0.02               | <0.02               | -                   | <0.02                 | <0.02                 | <0.02                 | -                   | <0.02                 | -                   | <0.02                 | <0.02                                                        | ug/l  | TM135/PM122 |
| PFEESA                  | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| 9CI-PF3ONS <sup>#</sup> | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |
| 11CI-PF3OUs             | <0.001              | <0.001              | -                   | <0.001                | <0.001                | <0.001                | -                   | <0.001                | -                   | <0.001                | <0.001                                                       | ug/l  | TM135/PM122 |



## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                        | 1-12                | 13-24               | 25-36              | 37-48               | 49-60               | 61-72               | 73-84                | 85-96               | 97-108             | 109-120             | Please see attached notes for all abbreviations and acronyms |          |               |
|---------------------------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|----------------------|---------------------|--------------------|---------------------|--------------------------------------------------------------|----------|---------------|
| Sample ID                             | SW01                | SW02                | SW03               | BH2513              | BH2527              | BH2520              | BH2517               | BH2518              | BH2514             | BH2516              |                                                              |          |               |
| Depth                                 |                     |                     |                    | 1.77                | 1.80                | 3.10                | 4.20                 | 1.50                | 3.60               | 2.90                |                                                              |          |               |
| COC No / misc                         |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
| Containers                            | V H N N P BOD PF G  | V H N N P BOD PF G  | V H N N P BOD PF G | V H N N P BOD PF G  | V H N N P BOD PF G  | V H N N P BOD PF G  | V H N N P BOD PF G   | V H N N P BOD PF G  | V H N N P BOD PF G | V H N N P BOD PF G  |                                                              |          |               |
| Sample Date                           | 09/10/2024          | 09/10/2024          | 09/10/2024         | 09/10/2024          | 09/10/2024          | 09/10/2024          | 09/10/2024           | 09/10/2024          | 09/10/2024         | 09/10/2024          |                                                              |          |               |
| Sample Type                           | Surface Water       | Surface Water       | Surface Water      | Ground Water        | Ground Water        | Ground Water        | Ground Water         | Ground Water        | Ground Water       | Ground Water        |                                                              |          |               |
| Batch Number                          | 1                   | 1                   | 1                  | 1                   | 1                   | 1                   | 1                    | 1                   | 1                  | 1                   | LOD/LOR                                                      | Units    | Method No.    |
| Date of Receipt                       | 10/10/2024          | 10/10/2024          | 10/10/2024         | 10/10/2024          | 10/10/2024          | 10/10/2024          | 10/10/2024           | 10/10/2024          | 10/10/2024         | 10/10/2024          |                                                              |          |               |
| PFAAS Continued                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
| 4:2 FTS                               | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| 6:2 FTS                               | <0.005              | <0.005              | -                  | 0.006               | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| 8:2 FTS                               | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| FBSA                                  | <0.02               | <0.02               | -                  | <0.02               | <0.02               | <0.02               | -                    | <0.02               | -                  | <0.02               | <0.02                                                        | ug/l     | TM135/PM12    |
| FHxSA                                 | <0.02               | <0.02               | -                  | <0.02               | <0.02               | <0.02               | -                    | <0.02               | -                  | <0.02               | <0.02                                                        | ug/l     | TM135/PM12    |
| FOSA                                  | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| N-MeFOSA                              | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| N-EtFOSA                              | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| Me-FOSE                               | <0.02               | <0.02               | -                  | <0.02               | <0.02               | <0.02               | -                    | <0.02               | -                  | <0.02               | <0.02                                                        | ug/l     | TM135/PM12    |
| Et-FOSE                               | <0.02               | <0.02               | -                  | <0.02               | <0.02               | <0.02               | -                    | <0.02               | -                  | <0.02               | <0.02                                                        | ug/l     | TM135/PM12    |
| N-MeFOSAA                             | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| N-EtFOSAA                             | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| 8:2diPAP                              | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
| FOUEA                                 | <0.005              | <0.005              | -                  | <0.005              | <0.005              | <0.005              | -                    | <0.005              | -                  | <0.005              | <0.005                                                       | ug/l     | TM135/PM12    |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
| 1,4-Dioxane*                          | <8.40 <sup>AH</sup> | <7.00 <sup>AF</sup> | -                  | <7.00 <sup>AF</sup> | <7.70 <sup>AG</sup> | <7.70 <sup>AG</sup> | <35.00 <sup>AI</sup> | <7.00 <sup>AF</sup> | -                  | <8.40 <sup>AH</sup> | <0.07                                                        | ug/l     | Subcontractor |
| BOD (Settled) <sup>#</sup>            | 3 <sup>AA</sup>     | 3 <sup>AA</sup>     | <2 <sup>AA</sup>   | <6 <sup>AD</sup>    | 16 <sup>AD</sup>    | <3 <sup>AB</sup>    | 11 <sup>AE</sup>     | <3 <sup>AB</sup>    | 15 <sup>AD</sup>   | <2 <sup>AA</sup>    | <1                                                           | mg/l     | TM58/PMC      |
| COD (Settled) <sup>#</sup>            | 18                  | 19                  | 24                 | 99                  | 63                  | 37                  | 160                  | 53                  | 63                 | 44                  | <7                                                           | mg/l     | TM57/PMC      |
| Dissolved Organic Carbon <sup>#</sup> | 3                   | <2                  | <2                 | 27                  | 21                  | 8                   | 53                   | 15                  | 19                 | 10                  | <2                                                           | mg/l     | TM60/PMC      |
| Free Ammonia as NH3                   | <0.007              | <0.007              | <0.007             | <0.007              | <0.007              | <0.007              | 0.186                | 0.009               | 0.032              | 0.010               | <0.007                                                       | mg/l     | TM176/PMC     |
| pH <sup>#</sup>                       | 8.22                | 8.25                | 8.22               | 7.72                | 7.66                | 7.99                | 7.98                 | 7.98                | 7.77               | 7.78                | <0.01                                                        | pH units | TM73/PMC      |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
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|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
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|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
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|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     |                    |                     |                                                              |          |               |
|                                       |                     |                     |                    |                     |                     |                     |                      |                     | </                 |                     |                                                              |          |               |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

|                                     |                     |  |  |  |  |  |  |  |  |  |                                                              |       |            |
|-------------------------------------|---------------------|--|--|--|--|--|--|--|--|--|--------------------------------------------------------------|-------|------------|
| EMT Sample No.                      | 121-132             |  |  |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
| Sample ID                           | Duplicate           |  |  |  |  |  |  |  |  |  |                                                              |       |            |
| Depth                               | 3.60                |  |  |  |  |  |  |  |  |  |                                                              |       |            |
| COC No / misc                       |                     |  |  |  |  |  |  |  |  |  |                                                              |       |            |
| Containers                          | V H HN N P BOD PF G |  |  |  |  |  |  |  |  |  |                                                              |       |            |
| Sample Date                         | 09/10/2024          |  |  |  |  |  |  |  |  |  |                                                              |       |            |
| Sample Type                         | Ground Water        |  |  |  |  |  |  |  |  |  |                                                              |       |            |
| Batch Number                        | 1                   |  |  |  |  |  |  |  |  |  |                                                              |       |            |
| Date of Receipt                     | 10/10/2024          |  |  |  |  |  |  |  |  |  | LOD/LOR                                                      | Units | Method No. |
| Dissolved Arsenic #                 | 4.0                 |  |  |  |  |  |  |  |  |  | <0.9                                                         | ug/l  | TM170/PM14 |
| Dissolved Beryllium #               | <0.5                |  |  |  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Boron #                   | 1144AC              |  |  |  |  |  |  |  |  |  | <12                                                          | ug/l  | TM170/PM14 |
| Dissolved Cadmium #                 | <0.03               |  |  |  |  |  |  |  |  |  | <0.03                                                        | ug/l  | TM170/PM14 |
| Total Dissolved Chromium #          | 0.8                 |  |  |  |  |  |  |  |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Copper #                  | <1                  |  |  |  |  |  |  |  |  |  | <1                                                           | ug/l  | TM170/PM14 |
| Total Dissolved Iron #              | -                   |  |  |  |  |  |  |  |  |  | <4.7                                                         | ug/l  | TM170/PM14 |
| Dissolved Lead #                    | <0.4                |  |  |  |  |  |  |  |  |  | <0.4                                                         | ug/l  | TM170/PM14 |
| Dissolved Mercury #                 | <0.5                |  |  |  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM170/PM14 |
| Dissolved Nickel #                  | 2.3                 |  |  |  |  |  |  |  |  |  | <0.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Selenium #                | <1.2                |  |  |  |  |  |  |  |  |  | <1.2                                                         | ug/l  | TM170/PM14 |
| Dissolved Vanadium #                | 2.1                 |  |  |  |  |  |  |  |  |  | <0.6                                                         | ug/l  | TM170/PM14 |
| Dissolved Zinc #                    | 2.2                 |  |  |  |  |  |  |  |  |  | <1.5                                                         | ug/l  | TM170/PM14 |
| Total Hardness Dissolved (as CaCO3) | 1009                |  |  |  |  |  |  |  |  |  | <1                                                           | mg/l  | TM30/PM14  |
| PAH MS                              |                     |  |  |  |  |  |  |  |  |  |                                                              |       |            |
| Naphthalene #                       | >>19.7              |  |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM4/PM30   |
| Acenaphthylene #                    | <0.005              |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Acenaphthene #                      | 4.708               |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluorene #                          | 2.158               |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Phenanthrene #                      | 1.227               |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Anthracene #                        | 0.315               |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Fluoranthene #                      | 0.202               |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Pyrene #                            | 0.106               |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(a)anthracene #                | 0.005               |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Chrysene #                          | <0.005              |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(bk)fluoranthene #             | <0.008              |  |  |  |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(a)pyrene #                    | <0.005              |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Indeno(123cd)pyrene #               | <0.005              |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Dibenzo(ah)anthracene #             | <0.005              |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| Benzo(ghi)perylene #                | <0.005              |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l  | TM4/PM30   |
| PAH 16 Total #                      | 28.421              |  |  |  |  |  |  |  |  |  | <0.173                                                       | ug/l  | TM4/PM30   |
| Benzo(b)fluoranthene                | <0.008              |  |  |  |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| Benzo(k)fluoranthene                | <0.008              |  |  |  |  |  |  |  |  |  | <0.008                                                       | ug/l  | TM4/PM30   |
| PAH Surrogate % Recovery            | 78                  |  |  |  |  |  |  |  |  |  | <0                                                           | %     | TM4/PM30   |
| VOC TICs                            | -                   |  |  |  |  |  |  |  |  |  |                                                              | None  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #       | -                   |  |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Benzene #                           | -                   |  |  |  |  |  |  |  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Toluene #                           | -                   |  |  |  |  |  |  |  |  |  | <5                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                      | -                   |  |  |  |  |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                        | -                   |  |  |  |  |  |  |  |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                          | -                   |  |  |  |  |  |  |  |  |  | <1                                                           | ug/l  | TM15/PM10  |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                                              | 121-132             |  |  |  |  |  |  |  |  |       |      |               |
|-------------------------------------------------------------|---------------------|--|--|--|--|--|--|--|--|-------|------|---------------|
| Sample ID                                                   | Duplicate           |  |  |  |  |  |  |  |  |       |      |               |
| Depth                                                       | 3.60                |  |  |  |  |  |  |  |  |       |      |               |
| COC No / misc                                               |                     |  |  |  |  |  |  |  |  |       |      |               |
| Containers                                                  | V H HN N P BOD PF G |  |  |  |  |  |  |  |  |       |      |               |
| Sample Date                                                 | 09/10/2024          |  |  |  |  |  |  |  |  |       |      |               |
| Sample Type                                                 | Ground Water        |  |  |  |  |  |  |  |  |       |      |               |
| Batch Number                                                | 1                   |  |  |  |  |  |  |  |  |       |      |               |
| Date of Receipt                                             | 10/10/2024          |  |  |  |  |  |  |  |  |       |      |               |
| Surrogate Recovery Toluene D8                               | -                   |  |  |  |  |  |  |  |  | <0    | %    | TM15/PM10     |
| Surrogate Recovery 4-Bromofluorobenzene                     | -                   |  |  |  |  |  |  |  |  | <0    | %    | TM15/PM10     |
| SVOC TICs                                                   | -                   |  |  |  |  |  |  |  |  |       | None | TM16/PM30     |
| MTBE #                                                      | <5                  |  |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| Benzene #                                                   | <5                  |  |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| Toluene #                                                   | <5                  |  |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| Ethylbenzene #                                              | <5                  |  |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| m/p-Xylene #                                                | <5                  |  |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| o-Xylene #                                                  | <5                  |  |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| TPH CWG                                                     |                     |  |  |  |  |  |  |  |  |       |      |               |
| <b>Aliphatics</b>                                           |                     |  |  |  |  |  |  |  |  |       |      |               |
| >C5-C6 (HS_1D_AL) #                                         | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >C6-C8 (HS_1D_AL) #                                         | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >C8-C10 (HS_1D_AL) #                                        | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >C10-C12 (EH_CU_1D_AL) #                                    | <5                  |  |  |  |  |  |  |  |  | <5    | ug/l | TM5/PM16/PM30 |
| >C12-C16 (EH_CU_1D_AL) #                                    | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| >C16-C21 (EH_CU_1D_AL) #                                    | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| >C21-C35 (EH_CU_1D_AL) #                                    | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) #                   | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| <b>Aromatics</b>                                            |                     |  |  |  |  |  |  |  |  |       |      |               |
| >C5-EC7 (HS_1D_AR) #                                        | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >EC7-EC8 (HS_1D_AR) #                                       | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >EC8-EC10 (HS_1D_AR) #                                      | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >EC10-EC12 (EH_CU_1D_AR) #                                  | <5                  |  |  |  |  |  |  |  |  | <5    | ug/l | TM5/PM16/PM30 |
| >EC12-EC16 (EH_CU_1D_AR) #                                  | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| >EC16-EC21 (EH_CU_1D_AR) #                                  | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| >EC21-EC35 (EH_CU_1D_AR) #                                  | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                    | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| Total aliphatics and aromatics(C5-35) (EH_CU+HS_1D_Total) # | <10                 |  |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| Total Phenols HPLC                                          | <0.15               |  |  |  |  |  |  |  |  | <0.15 | mg/l | TM26/PM0      |
| Sulphate as SO <sub>4</sub> #                               | 213.3               |  |  |  |  |  |  |  |  | <0.5  | mg/l | TM38/PM0      |
| Chloride #                                                  | -                   |  |  |  |  |  |  |  |  | <0.3  | mg/l | TM38/PM0      |
| Nitrate as NO <sub>3</sub> #                                | -                   |  |  |  |  |  |  |  |  | <0.2  | mg/l | TM38/PM0      |
| Nitrite as NO <sub>2</sub> #                                | -                   |  |  |  |  |  |  |  |  | <0.02 | mg/l | TM38/PM0      |
| Ortho Phosphate as PO <sub>4</sub> #                        | -                   |  |  |  |  |  |  |  |  | <0.06 | mg/l | TM38/PM0      |
| Total Cyanide #                                             | 0.02                |  |  |  |  |  |  |  |  | <0.01 | mg/l | TM89/PM0      |
| Ammoniacal Nitrogen as N #                                  | 5.39                |  |  |  |  |  |  |  |  | <0.03 | mg/l | TM38/PM0      |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

[illegible]

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.  | 121-132               |  |  |  |  |  |  |  |  |  |         |       |             |
|-----------------|-----------------------|--|--|--|--|--|--|--|--|--|---------|-------|-------------|
| Sample ID       | Duplicate             |  |  |  |  |  |  |  |  |  |         |       |             |
| Depth           | 3.60                  |  |  |  |  |  |  |  |  |  |         |       |             |
| COC No / misc   |                       |  |  |  |  |  |  |  |  |  |         |       |             |
| Containers      | V H H N P B O D P F G |  |  |  |  |  |  |  |  |  |         |       |             |
| Sample Date     | 09/10/2024            |  |  |  |  |  |  |  |  |  |         |       |             |
| Sample Type     | Ground Water          |  |  |  |  |  |  |  |  |  |         |       |             |
| Batch Number    | 1                     |  |  |  |  |  |  |  |  |  |         |       |             |
| Date of Receipt | 10/10/2024            |  |  |  |  |  |  |  |  |  |         |       |             |
|                 |                       |  |  |  |  |  |  |  |  |  | LOD/LOR | Units | Method No.  |
| PFAAS           |                       |  |  |  |  |  |  |  |  |  |         |       |             |
| PFBA            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFPeA           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFHxA           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFHpA           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFOA            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFNA            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFDA            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFUnA           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFDaA           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFTTrDA         | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFTeDA          | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFHxDA          | -                     |  |  |  |  |  |  |  |  |  | <0.1    | ug/l  | TM135/PM121 |
| PFODA           | -                     |  |  |  |  |  |  |  |  |  | <0.1    | ug/l  | TM135/PM121 |
| PFBS            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFPeS           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFHxS           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFHpS           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFOS            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFNS            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFDS            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFUnDS          | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFDaDS          | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFTTrDS         | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| HFPO-DA (Gen X) | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| HFPO-TA         | -                     |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM135/PM121 |
| DONA            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFMOPrA         | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| NFDHA           | -                     |  |  |  |  |  |  |  |  |  | <0.1    | ug/l  | TM135/PM121 |
| PFMOBA          | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| PFECHS          | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| 3:3 FTCA        | -                     |  |  |  |  |  |  |  |  |  | <0.1    | ug/l  | TM135/PM121 |
| 5:3 FTCA        | -                     |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM135/PM121 |
| 7:3 FTCA        | -                     |  |  |  |  |  |  |  |  |  | <0.1    | ug/l  | TM135/PM121 |
| PFEESA          | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| 9Cl-PF3ONS      | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| 11Cl-PF3OUdS    | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| 4:2 FTS         | -                     |  |  |  |  |  |  |  |  |  | <0.2    | ug/l  | TM135/PM121 |
| 6:2 FTS         | -                     |  |  |  |  |  |  |  |  |  | <0.2    | ug/l  | TM135/PM121 |
| 8:2 FTS         | -                     |  |  |  |  |  |  |  |  |  | <0.2    | ug/l  | TM135/PM121 |
| FBSA            | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| FHxSA           | -                     |  |  |  |  |  |  |  |  |  | <0.05   | ug/l  | TM135/PM121 |
| FOSA            | -                     |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM135/PM121 |
| N-MeFOSA        | -                     |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM135/PM121 |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-003  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/17232

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

|                 |                       |  |  |  |  |  |  |  |  |  |          |       |             |
|-----------------|-----------------------|--|--|--|--|--|--|--|--|--|----------|-------|-------------|
| EMT Sample No.  | 121-132               |  |  |  |  |  |  |  |  |  |          |       |             |
| Sample ID       | Duplicate             |  |  |  |  |  |  |  |  |  |          |       |             |
| Depth           | 3.60                  |  |  |  |  |  |  |  |  |  |          |       |             |
| COC No / misc   |                       |  |  |  |  |  |  |  |  |  |          |       |             |
| Containers      | V H H N P B O D P F G |  |  |  |  |  |  |  |  |  |          |       |             |
| Sample Date     | 09/10/2024            |  |  |  |  |  |  |  |  |  |          |       |             |
| Sample Type     | Ground Water          |  |  |  |  |  |  |  |  |  |          |       |             |
| Batch Number    | 1                     |  |  |  |  |  |  |  |  |  |          |       |             |
| Date of Receipt | 10/10/2024            |  |  |  |  |  |  |  |  |  |          |       |             |
| PFAAS Continued |                       |  |  |  |  |  |  |  |  |  | LOD/LOR  | Units | Method No.  |
| N-EtFOSA        | -                     |  |  |  |  |  |  |  |  |  | <1       | ug/l  | TM135/PM121 |
| Me-FOSE         | -                     |  |  |  |  |  |  |  |  |  | <0.1     | ug/l  | TM135/PM121 |
| Et-FOSE         | -                     |  |  |  |  |  |  |  |  |  | <0.1     | ug/l  | TM135/PM121 |
| N-MeFOSAA       | -                     |  |  |  |  |  |  |  |  |  | <1       | ug/l  | TM135/PM121 |
| N-EtFOSAA       | -                     |  |  |  |  |  |  |  |  |  | <1       | ug/l  | TM135/PM121 |
| 8:2diPAP        | -                     |  |  |  |  |  |  |  |  |  | <0.2     | ug/l  | TM135/PM121 |
| FOUEA           | -                     |  |  |  |  |  |  |  |  |  | <1       | ug/l  | TM135/PM121 |
| PFBA #          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFPeA #         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHxA #         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHpA #         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFOA #          | -                     |  |  |  |  |  |  |  |  |  | <0.00065 | ug/l  | TM135/PM122 |
| PFNA #          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFDA #          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFUnA #         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFDoA           | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFTTrDA         | -                     |  |  |  |  |  |  |  |  |  | <0.006   | ug/l  | TM135/PM122 |
| PFTeDA          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHxDA          | -                     |  |  |  |  |  |  |  |  |  | <0.01    | ug/l  | TM135/PM122 |
| PFODA           | -                     |  |  |  |  |  |  |  |  |  | <0.025   | ug/l  | TM135/PM122 |
| PFBS #          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFPeS #         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHxS #         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFHpS #         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFOS #          | -                     |  |  |  |  |  |  |  |  |  | <0.00065 | ug/l  | TM135/PM122 |
| PFNS            | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFDS            | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFUnDS          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFDoDS          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFTTrDS         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| HFPO-DA (Gen X) | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| HFPO-TA         | -                     |  |  |  |  |  |  |  |  |  | <0.02    | ug/l  | TM135/PM122 |
| DONA #          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFMOPrA         | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| NFDHA           | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFMOBA          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| PFECHS          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| 3:3 FTCA        | -                     |  |  |  |  |  |  |  |  |  | <0.02    | ug/l  | TM135/PM122 |
| 5:3 FTCA        | -                     |  |  |  |  |  |  |  |  |  | <0.01    | ug/l  | TM135/PM122 |
| 7:3 FTCA        | -                     |  |  |  |  |  |  |  |  |  | <0.02    | ug/l  | TM135/PM122 |
| PFEESA          | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| 9Cl-PF3ONS #    | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |
| 11Cl-PF3OUs     | -                     |  |  |  |  |  |  |  |  |  | <0.001   | ug/l  | TM135/PM122 |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

|                            |                      |  |  |  |  |  |  |  |  |  |                                                              |          |               |
|----------------------------|----------------------|--|--|--|--|--|--|--|--|--|--------------------------------------------------------------|----------|---------------|
| EMT Sample No.             | 121-132              |  |  |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |          |               |
| Sample ID                  | Duplicate            |  |  |  |  |  |  |  |  |  |                                                              |          |               |
| Depth                      | 3.60                 |  |  |  |  |  |  |  |  |  |                                                              |          |               |
| COC No / misc              |                      |  |  |  |  |  |  |  |  |  |                                                              |          |               |
| Containers                 | V H H N N P BOD PF G |  |  |  |  |  |  |  |  |  |                                                              |          |               |
| Sample Date                | 09/10/2024           |  |  |  |  |  |  |  |  |  |                                                              |          |               |
| Sample Type                | Ground Water         |  |  |  |  |  |  |  |  |  |                                                              |          |               |
| Batch Number               | 1                    |  |  |  |  |  |  |  |  |  |                                                              |          |               |
| Date of Receipt            | 10/10/2024           |  |  |  |  |  |  |  |  |  | LOD/LOR                                                      | Units    | Method No.    |
| PFAAS Continued            |                      |  |  |  |  |  |  |  |  |  |                                                              |          |               |
| 4:2 FTS                    | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| 6:2 FTS                    | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| 8:2 FTS                    | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| FBSA                       | -                    |  |  |  |  |  |  |  |  |  | <0.02                                                        | ug/l     | TM135/PM122   |
| FHxSA                      | -                    |  |  |  |  |  |  |  |  |  | <0.02                                                        | ug/l     | TM135/PM122   |
| FOSA                       | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| N-MeFOSA                   | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| N-EtFOSA                   | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| Me-FOSE                    | -                    |  |  |  |  |  |  |  |  |  | <0.02                                                        | ug/l     | TM135/PM122   |
| Et-FOSE                    | -                    |  |  |  |  |  |  |  |  |  | <0.02                                                        | ug/l     | TM135/PM122   |
| N-MeFOSAA                  | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| N-EtFOSAA                  | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| 8:2diPAP                   | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| FOUEA                      | -                    |  |  |  |  |  |  |  |  |  | <0.005                                                       | ug/l     | TM135/PM122   |
| 1,4-Dioxane*               | -                    |  |  |  |  |  |  |  |  |  | <0.07                                                        | ug/l     | Subcontracted |
| BOD (Settled) #            | -                    |  |  |  |  |  |  |  |  |  | <1                                                           | mg/l     | TM58/PM0      |
| COD (Settled) #            | -                    |  |  |  |  |  |  |  |  |  | <7                                                           | mg/l     | TM57/PM0      |
| Dissolved Organic Carbon # | -                    |  |  |  |  |  |  |  |  |  | <2                                                           | mg/l     | TM60/PM0      |
| Free Ammonia as NH3        | -                    |  |  |  |  |  |  |  |  |  | <0.007                                                       | mg/l     | TM176/PM0     |
| pH #                       | 7.59                 |  |  |  |  |  |  |  |  |  | <0.01                                                        | pH units | TM73/PM0      |

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**SVOC Report :** Liquid

| EMT Sample No.                      | 1-12                    | 13-24                   | 37-48                   | 49-60                   | 61-72                   | 73-84                   | 85-96                   | 109-120                 |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|-------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                           | SW01                    | SW02                    | BH2513                  | BH2527                  | BH2520                  | BH2517                  | BH2518                  | BH2516                  |  |  |                                                              |       |            |
| Depth                               |                         |                         | 1.77                    | 1.80                    | 3.10                    | 4.20                    | 1.50                    | 2.90                    |  |  |                                                              |       |            |
| COC No / misc Containers            | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G | V H H N N P B O D P F G |  |  |                                                              |       |            |
| Sample Date                         | 09/10/2024              | 09/10/2024              | 09/10/2024              | 09/10/2024              | 09/10/2024              | 09/10/2024              | 09/10/2024              | 09/10/2024              |  |  |                                                              |       |            |
| Sample Type                         | Surface Water           | Surface Water           | Ground Water            | Ground Water            | Ground Water            | Ground Water            | Ground Water            | Ground Water            |  |  |                                                              |       |            |
| Batch Number                        | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       | 1                       |  |  |                                                              |       |            |
| Date of Receipt                     | 10/10/2024              | 10/10/2024              | 10/10/2024              | 10/10/2024              | 10/10/2024              | 10/10/2024              | 10/10/2024              | 10/10/2024              |  |  | LOD/LOR                                                      | Units | Method No. |
| SVOC MS                             |                         |                         |                         |                         |                         |                         |                         |                         |  |  |                                                              |       |            |
| <b>Phenols</b>                      |                         |                         |                         |                         |                         |                         |                         |                         |  |  |                                                              |       |            |
| 2-Chlorophenol #                    | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 2-Methylphenol #                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| 2-Nitrophenol                       | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| 2,4-Dichlorophenol #                | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| 2,4-Dimethylphenol                  | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 2,4,5-Trichlorophenol #             | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| 2,4,6-Trichlorophenol               | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 4-Chloro-3-methylphenol #           | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| 4-Methylphenol                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 4-Nitrophenol                       | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     | <10                     |  |  | <10                                                          | ug/l  | TM16/PM30  |
| Pentachlorophenol                   | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Phenol                              | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| <b>PAHs</b>                         |                         |                         |                         |                         |                         |                         |                         |                         |  |  |                                                              |       |            |
| 2-Chloronaphthalene #               | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 2-Methylnaphthalene #               | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| <b>Phthalates</b>                   |                         |                         |                         |                         |                         |                         |                         |                         |  |  |                                                              |       |            |
| Bis(2-ethylhexyl) phthalate         | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      | <5                      |  |  | <5                                                           | ug/l  | TM16/PM30  |
| Butylbenzyl phthalate               | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Di-n-butyl phthalate #              | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    | <1.5                    |  |  | <1.5                                                         | ug/l  | TM16/PM30  |
| Di-n-Octyl phthalate                | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Diethyl phthalate #                 | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Dimethyl phthalate                  | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| <b>Other SVOCs</b>                  |                         |                         |                         |                         |                         |                         |                         |                         |  |  |                                                              |       |            |
| 1,2-Dichlorobenzene #               | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 1,2,4-Trichlorobenzene #            | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 1,3-Dichlorobenzene #               | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 1,4-Dichlorobenzene #               | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 2-Nitroaniline                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 2,4-Dinitrotoluene #                | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| 2,6-Dinitrotoluene                  | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 3-Nitroaniline                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 4-Bromophenylphenylether #          | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 4-Chloroaniline                     | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 4-Chlorophenylphenylether #         | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| 4-Nitroaniline                      | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| Azobenzene #                        | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| Bis(2-chloroethoxy)methane #        | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| Bis(2-chloroethyl)ether #           | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Carbazole #                         | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| Dibenzofuran #                      | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| Hexachlorobenzene #                 | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Hexachlorobutadiene #               | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Hexachlorocyclopentadiene           | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Hexachloroethane #                  | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Isophorone #                        | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| N-nitrosodi-n-propylamine #         | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    | <0.5                    |  |  | <0.5                                                         | ug/l  | TM16/PM30  |
| Nitrobenzene #                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      | <1                      |  |  | <1                                                           | ug/l  | TM16/PM30  |
| Surrogate Recovery 2-Fluorobiphenyl | 108                     | 107                     | 103                     | 104                     | 80                      | 108                     | 111                     | 84                      |  |  | <0                                                           | %     | TM16/PM30  |
| Surrogate Recovery p-Terphenyl-d14  | 112                     | 112                     | 112                     | 109                     | 85                      | 115                     | 119                     | 84                      |  |  | <0                                                           | %     | TM16/PM30  |

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Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**VOC Report :** Liquid

| EMT Sample No.                 | 1-12                  | 13-24                 | 37-48                 | 49-60                 | 61-72                 | 73-84                 | 85-96                 | 109-120               |  |  | Please see attached notes for all abbreviations and acronyms |       |            |
|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--------------------------------------------------------------|-------|------------|
| Sample ID                      | SW01                  | SW02                  | BH2513                | BH2527                | BH2520                | BH2517                | BH2518                | BH2516                |  |  |                                                              |       |            |
| Depth                          |                       |                       | 1.77                  | 1.80                  | 3.10                  | 4.20                  | 1.50                  | 2.90                  |  |  |                                                              |       |            |
| COC No / misc Containers       | V H N N P B O D P F G | V H N N P B O D P F G | V H N N P B O D P F G | V H N N P B O D P F G | V H N N P B O D P F G | V H N N P B O D P F G | V H N N P B O D P F G | V H N N P B O D P F G |  |  |                                                              |       |            |
| Sample Date                    | 09/10/2024            | 09/10/2024            | 09/10/2024            | 09/10/2024            | 09/10/2024            | 09/10/2024            | 09/10/2024            | 09/10/2024            |  |  |                                                              |       |            |
| Sample Type                    | Surface Water         | Surface Water         | Ground Water          | Ground Water          | Ground Water          | Ground Water          | Ground Water          | Ground Water          |  |  |                                                              |       |            |
| Batch Number                   | 1                     | 1                     | 1                     | 1                     | 1                     | 1                     | 1                     | 1                     |  |  |                                                              |       |            |
| Date of Receipt                | 10/10/2024            | 10/10/2024            | 10/10/2024            | 10/10/2024            | 10/10/2024            | 10/10/2024            | 10/10/2024            | 10/10/2024            |  |  | LOD/LOR                                                      | Units | Method No. |
| VOC MS                         |                       |                       |                       |                       |                       |                       |                       |                       |  |  |                                                              |       |            |
| Dichlorodifluoromethane        | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #  | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Chloromethane #                | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Vinyl Chloride #               | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  | <0.1                  |  |  | <0.1                                                         | ug/l  | TM15/PM10  |
| Bromomethane                   | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Chloroethane #                 | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Trichlorofluoromethane #       | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloroethene (1,1 DCE) # | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Carbon Disulphide #            | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Dichloromethane (DCM) #        | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| trans-1-2-Dichloroethene #     | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloroethane #           | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| cis-1-2-Dichloroethene #       | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 2,2-Dichloropropane            | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Bromochloromethane #           | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Chloroform #                   | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,1-Trichloroethane #        | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1-Dichloropropene #          | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Carbon tetrachloride #         | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichloroethane #           | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Benzene #                      | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  | <0.5                  |  |  | <0.5                                                         | ug/l  | TM15/PM10  |
| Trichloroethene (TCE) #        | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichloropropane #          | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Dibromomethane #               | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Bromodichloromethane #         | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| cis-1-3-Dichloropropene        | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Toluene #                      | <5                    | <5                    | <5                    | <5                    | <5                    | <5                    | <5                    | <5                    |  |  | <5                                                           | ug/l  | TM15/PM10  |
| trans-1-3-Dichloropropene      | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,2-Trichloroethane #        | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Tetrachloroethene (PCE) #      | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3-Dichloropropane #          | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Dibromochloromethane #         | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2-Dibromoethane #            | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Chlorobenzene #                | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,1,1,2-Tetrachloroethane #    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Ethylbenzene #                 | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    |  |  | <1                                                           | ug/l  | TM15/PM10  |
| m/p-Xylene #                   | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| o-Xylene #                     | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    | <1                    |  |  | <1                                                           | ug/l  | TM15/PM10  |
| Styrene                        | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Bromoform #                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| Isopropylbenzene #             | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,1,2,2-Tetrachloroethane      | <4                    | <4                    | <4                    | <4                    | <4                    | <4                    | <4                    | <4                    |  |  | <4                                                           | ug/l  | TM15/PM10  |
| Bromobenzene #                 | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,3-Trichloropropane #       | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Propylbenzene #                | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 2-Chlorotoluene #              | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3,5-Trimethylbenzene #       | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 4-Chlorotoluene #              | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| tert-Butylbenzene #            | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2,4-Trimethylbenzene #       | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| sec-Butylbenzene #             | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 4-Isopropyltoluene #           | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,3-Dichlorobenzene #          | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,4-Dichlorobenzene #          | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| n-Butylbenzene #               | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dichlorobenzene #          | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| 1,2-Dibromo-3-chloropropane    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,4-Trichlorobenzene         | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Hexachlorobutadiene            | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Naphthalene                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    | <2                    |  |  | <2                                                           | ug/l  | TM15/PM10  |
| 1,2,3-Trichlorobenzene         | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    | <3                    |  |  | <3                                                           | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8  | 97                    | 91                    | 94                    | 92                    | 98                    | 95                    | 95                    | 76                    |  |  | <0                                                           | %     | TM15/PM10  |

VOC Report : Liquid

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

### Notification of Deviating Samples

|                     |                |
|---------------------|----------------|
| <b>Client Name:</b> | Ramboll        |
| <b>Reference:</b>   | 1620016166-003 |
| <b>Location:</b>    | Manor Farm     |
| <b>Contact:</b>     | Eleanor Brown  |

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/17232

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x2 Dilution                                                                                                                                                              |
| AB      | x3 Dilution                                                                                                                                                              |
| AC      | x5 Dilution                                                                                                                                                              |
| AD      | x6 Dilution                                                                                                                                                              |
| AE      | x10 Dilution                                                                                                                                                             |
| AF      | x100 Dilution                                                                                                                                                            |

|    |               |                                       |
|----|---------------|---------------------------------------|
| AG | x110 Dilution | SBC PLANNING<br>RECEIVED : 17.12.2024 |
| AH | x120 Dilution |                                       |
| AI | x500 Dilution |                                       |

# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |



## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/17232

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                       | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.                                                                                                                | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.  | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                                                                                                                                   | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                              | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                 | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                 | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                     | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                     | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                                                                                                                                | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/17232

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                     | Prep Method No. (if appropriate) | Description                                                                                                             | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested. | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I                          | PM0                              | No preparation is required.                                                                                             |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I                          | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                              | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                 | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.                                                                                                    | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                                                                                                                       | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                                                                                                                       | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                                                                                                                                          | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                                                                                                                        | PM121                            | Preparation of PFAS liquid samples – As received samples are centrifuged and the supernatant is used for PFAS analysis. |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/17232

| Test Method No. | Description                                                                                                                                                                                                      | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                         | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                                                                     |                         |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                         | PM122                            | SPE Preparation of Water Samples for PFAS analysis by LC-MS/MS                                                                                                     | Yes                     |                        |                                                 |                              |
| TM170           | Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma-Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                     |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                         | PM0                              | No preparation is required.                                                                                                                                        |                         |                        |                                                 |                              |
| NONE            | No Method Code                                                                                                                                                                                                   | NONE                             | No Method Code                                                                                                                                                     |                         |                        |                                                 |                              |
| Subcontracted   | See attached subcontractor report for accreditation status and provider.                                                                                                                                         |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |



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Ramboll  
240 Blackfriars Road  
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United Kingdom  
SE1 8NW



4225



**Attention :** Eleanor Brown  
**Date :** 30th October, 2024  
**Your reference :** 1620016166-003  
**Our reference :** Test Report 24/17232 Batch 2  
**Location :** Manor Farm  
**Date samples received :** 11th October, 2024  
**Status :** Final Report  
**Issue :** 202410301215

Two samples were received for analysis on 11th October, 2024 of which two were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 7.819 kg of CO2

Scope 1&2&3 emissions - 18.479 kg of CO2

**Authorised By:**

**Simon Gomery BSc**  
Senior Project Manager

Please include all sections of this report if it is reproduced

## Element Materials Technology

Client Name: Ramboll  
Reference: 1620016166-003  
Location: Manor Farm  
Contact: Eleanor Brown  
EMT Job No: 24/17232

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                                   | 133-144               | 145-156               |  |  |  |  |  |  |  |  |        |      |            |
|--------------------------------------------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--------|------|------------|
| Sample ID                                        | BH2522                | BH2526                |  |  |  |  |  |  |  |  |        |      |            |
| Depth                                            | 3.40                  | 2.50                  |  |  |  |  |  |  |  |  |        |      |            |
| COC No / misc                                    |                       |                       |  |  |  |  |  |  |  |  |        |      |            |
| Containers                                       | V H H N P B O D P F G | V H H N P B O D P F G |  |  |  |  |  |  |  |  |        |      |            |
| Sample Date                                      | 10/10/2024            | 10/10/2024            |  |  |  |  |  |  |  |  |        |      |            |
| Sample Type                                      | Ground Water          | Ground Water          |  |  |  |  |  |  |  |  |        |      |            |
| Batch Number                                     | 2                     | 2                     |  |  |  |  |  |  |  |  |        |      |            |
| Date of Receipt                                  | 11/10/2024            | 11/10/2024            |  |  |  |  |  |  |  |  |        |      |            |
|                                                  |                       |                       |  |  |  |  |  |  |  |  |        |      |            |
| Dissolved Arsenic #                              | 2.0                   | 38.8                  |  |  |  |  |  |  |  |  | <0.9   | ug/l | TM170/PM14 |
| Dissolved Beryllium #                            | <0.5                  | <0.5                  |  |  |  |  |  |  |  |  | <0.5   | ug/l | TM170/PM14 |
| Dissolved Boron #                                | 1172 <sup>AA</sup>    | 90                    |  |  |  |  |  |  |  |  | <12    | ug/l | TM170/PM14 |
| Dissolved Cadmium #                              | <0.03                 | <0.03                 |  |  |  |  |  |  |  |  | <0.03  | ug/l | TM170/PM14 |
| Total Dissolved Chromium #                       | 2.2                   | 0.9                   |  |  |  |  |  |  |  |  | <0.2   | ug/l | TM170/PM14 |
| Dissolved Copper #                               | <1                    | <1                    |  |  |  |  |  |  |  |  | <1     | ug/l | TM170/PM14 |
| Total Dissolved Iron #                           | 2310.7 <sup>AA</sup>  | 29807.3 <sup>AE</sup> |  |  |  |  |  |  |  |  | <4.7   | ug/l | TM170/PM14 |
| Dissolved Lead #                                 | <0.4                  | <0.4                  |  |  |  |  |  |  |  |  | <0.4   | ug/l | TM170/PM14 |
| Dissolved Mercury #                              | <0.5                  | <0.5                  |  |  |  |  |  |  |  |  | <0.5   | ug/l | TM170/PM14 |
| Dissolved Nickel #                               | 1.2                   | 1.7                   |  |  |  |  |  |  |  |  | <0.2   | ug/l | TM170/PM14 |
| Dissolved Selenium #                             | <1.2                  | 1.2                   |  |  |  |  |  |  |  |  | <1.2   | ug/l | TM170/PM14 |
| Dissolved Vanadium #                             | 7.5                   | 2.6                   |  |  |  |  |  |  |  |  | <0.6   | ug/l | TM170/PM14 |
| Dissolved Zinc #                                 | 2.7                   | 8.7                   |  |  |  |  |  |  |  |  | <1.5   | ug/l | TM170/PM14 |
|                                                  |                       |                       |  |  |  |  |  |  |  |  |        |      |            |
| Total Hardness Dissolved (as CaCO <sub>3</sub> ) | 646 <sup>AC</sup>     | 826 <sup>AC</sup>     |  |  |  |  |  |  |  |  | <1     | mg/l | TM30/PM14  |
|                                                  |                       |                       |  |  |  |  |  |  |  |  |        |      |            |
| PAH MS                                           |                       |                       |  |  |  |  |  |  |  |  |        |      |            |
| Naphthalene #                                    | <0.1                  | <0.1                  |  |  |  |  |  |  |  |  | <0.1   | ug/l | TM4/PM30   |
| Acenaphthylene #                                 | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Acenaphthene #                                   | 0.006                 | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Fluorene #                                       | 0.005                 | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Phenanthrene #                                   | 0.005                 | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Anthracene #                                     | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Fluoranthene #                                   | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Pyrene #                                         | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Benzo(a)anthracene #                             | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Chrysene #                                       | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Benzo(b)fluoranthene #                           | <0.008                | <0.008                |  |  |  |  |  |  |  |  | <0.008 | ug/l | TM4/PM30   |
| Benzo(a)pyrene #                                 | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Indeno(123cd)pyrene #                            | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Dibenzo(ah)anthracene #                          | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| Benzo(ghi)perylene #                             | <0.005                | <0.005                |  |  |  |  |  |  |  |  | <0.005 | ug/l | TM4/PM30   |
| PAH 16 Total #                                   | <0.173                | <0.173                |  |  |  |  |  |  |  |  | <0.173 | ug/l | TM4/PM30   |
| Benzo(b)fluoranthene                             | <0.008                | <0.008                |  |  |  |  |  |  |  |  | <0.008 | ug/l | TM4/PM30   |
| Benzo(k)fluoranthene                             | <0.008                | <0.008                |  |  |  |  |  |  |  |  | <0.008 | ug/l | TM4/PM30   |
| PAH Surrogate % Recovery                         | 72                    | 87                    |  |  |  |  |  |  |  |  | <0     | %    | TM4/PM30   |
|                                                  |                       |                       |  |  |  |  |  |  |  |  |        |      |            |
| VOC TICs                                         | -                     | ND                    |  |  |  |  |  |  |  |  |        | None | TM15/PM10  |
| Methyl Tertiary Butyl Ether #                    | -                     | <0.1                  |  |  |  |  |  |  |  |  | <0.1   | ug/l | TM15/PM10  |
| Benzene #                                        | -                     | <0.5                  |  |  |  |  |  |  |  |  | <0.5   | ug/l | TM15/PM10  |
| Toluene #                                        | -                     | <5                    |  |  |  |  |  |  |  |  | <5     | ug/l | TM15/PM10  |
| Ethylbenzene #                                   | -                     | <1                    |  |  |  |  |  |  |  |  | <1     | ug/l | TM15/PM10  |
| m/p-Xylene #                                     | -                     | <2                    |  |  |  |  |  |  |  |  | <2     | ug/l | TM15/PM10  |
| o-Xylene #                                       | -                     | <1                    |  |  |  |  |  |  |  |  | <1     | ug/l | TM15/PM10  |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.                                               | 133-144               | 145-156               |  |  |  |  |  |  |  |       |      |               |
|--------------------------------------------------------------|-----------------------|-----------------------|--|--|--|--|--|--|--|-------|------|---------------|
| Sample ID                                                    | BH2522                | BH2526                |  |  |  |  |  |  |  |       |      |               |
| Depth                                                        | 3.40                  | 2.50                  |  |  |  |  |  |  |  |       |      |               |
| COC No / misc                                                |                       |                       |  |  |  |  |  |  |  |       |      |               |
| Containers                                                   | V H H N P B O D P F G | V H H N P B O D P F G |  |  |  |  |  |  |  |       |      |               |
| Sample Date                                                  | 10/10/2024            | 10/10/2024            |  |  |  |  |  |  |  |       |      |               |
| Sample Type                                                  | Ground Water          | Ground Water          |  |  |  |  |  |  |  |       |      |               |
| Batch Number                                                 | 2                     | 2                     |  |  |  |  |  |  |  |       |      |               |
| Date of Receipt                                              | 11/10/2024            | 11/10/2024            |  |  |  |  |  |  |  |       |      |               |
| Surrogate Recovery Toluene D8                                | -                     | 83                    |  |  |  |  |  |  |  | <0    | %    | TM15/PM10     |
| Surrogate Recovery 4-Bromofluorobenzene                      | -                     | 94                    |  |  |  |  |  |  |  | <0    | %    | TM15/PM10     |
| SVOC TICs                                                    | -                     | ND                    |  |  |  |  |  |  |  |       | None | TM16/PM30     |
| MTBE #                                                       | <5                    | -                     |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| Benzene #                                                    | <5                    | -                     |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| Toluene #                                                    | <5                    | -                     |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| Ethylbenzene #                                               | <5                    | -                     |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| m/p-Xylene #                                                 | <5                    | -                     |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| o-Xylene #                                                   | <5                    | -                     |  |  |  |  |  |  |  | <5    | ug/l | TM36/PM12     |
| TPH CWG                                                      |                       |                       |  |  |  |  |  |  |  |       |      |               |
| <b>Aliphatics</b>                                            |                       |                       |  |  |  |  |  |  |  |       |      |               |
| >C5-C6 (HS_1D_AL) #                                          | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >C6-C8 (HS_1D_AL) #                                          | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >C8-C10 (HS_1D_AL) #                                         | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >C10-C12 (EH_CU_1D_AL) #                                     | <5                    | <5                    |  |  |  |  |  |  |  | <5    | ug/l | TM5/PM16/PM30 |
| >C12-C16 (EH_CU_1D_AL) #                                     | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| >C16-C21 (EH_CU_1D_AL) #                                     | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| >C21-C35 (EH_CU_1D_AL) #                                     | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| Total aliphatics C5-35 (EH_CU+HS_1D_AL) #                    | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| <b>Aromatics</b>                                             |                       |                       |  |  |  |  |  |  |  |       |      |               |
| >C5-EC7 (HS_1D_AR) #                                         | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >EC7-EC8 (HS_1D_AR) #                                        | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >EC8-EC10 (HS_1D_AR) #                                       | <10                   | <10                   |  |  |  |  |  |  |  | <10   | ug/l | TM36/PM12     |
| >EC10-EC12 (EH_CU_1D_AR) #                                   | <5 <sup>SV</sup>      | <5 <sup>SV</sup>      |  |  |  |  |  |  |  | <5    | ug/l | TM5/PM16/PM30 |
| >EC12-EC16 (EH_CU_1D_AR) #                                   | <10 <sup>SV</sup>     | <10 <sup>SV</sup>     |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| >EC16-EC21 (EH_CU_1D_AR) #                                   | <10 <sup>SV</sup>     | <10 <sup>SV</sup>     |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| >EC21-EC35 (EH_CU_1D_AR) #                                   | <10 <sup>SV</sup>     | <10 <sup>SV</sup>     |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| Total aromatics C5-35 (EH_CU+HS_1D_AR) #                     | <10 <sup>SV</sup>     | <10 <sup>SV</sup>     |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| Total aliphatics and aromatics (C5-35) (EH_CU+HS_1D_Total) # | <10 <sup>SV</sup>     | <10 <sup>SV</sup>     |  |  |  |  |  |  |  | <10   | ug/l | TM5/PM16/PM30 |
| Total Phenols HPLC                                           | <0.15                 | <0.15                 |  |  |  |  |  |  |  | <0.15 | mg/l | TM26/PM0      |
| Sulphate as SO <sub>4</sub> #                                | <0.5                  | 24.9                  |  |  |  |  |  |  |  | <0.5  | mg/l | TM38/PM0      |
| Chloride #                                                   | 34.1                  | 44.3                  |  |  |  |  |  |  |  | <0.3  | mg/l | TM38/PM0      |
| Nitrate as NO <sub>3</sub> #                                 | <0.2                  | <0.2                  |  |  |  |  |  |  |  | <0.2  | mg/l | TM38/PM0      |
| Nitrite as NO <sub>2</sub> #                                 | 0.05                  | <0.02                 |  |  |  |  |  |  |  | <0.02 | mg/l | TM38/PM0      |
| Ortho Phosphate as PO <sub>4</sub> #                         | 0.18                  | <0.06                 |  |  |  |  |  |  |  | <0.06 | mg/l | TM38/PM0      |
| Total Cyanide #                                              | <0.01                 | <0.01                 |  |  |  |  |  |  |  | <0.01 | mg/l | TM89/PM0      |
| Ammoniacal Nitrogen as N #                                   | 12.15                 | 4.93                  |  |  |  |  |  |  |  | <0.03 | mg/l | TM38/PM0      |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

[illegible]

## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

| EMT Sample No.  | 133-144               | 145-156               |  |  |  |  |  |  |  |  | Please see attached notes for all abbreviations and acronyms |      |            |
|-----------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--------------------------------------------------------------|------|------------|
| Sample ID       | BH2522                | BH2526                |  |  |  |  |  |  |  |  |                                                              |      |            |
| Depth           | 3.40                  | 2.50                  |  |  |  |  |  |  |  |  |                                                              |      |            |
| COC No / misc   |                       |                       |  |  |  |  |  |  |  |  |                                                              |      |            |
| Containers      | V H H N P B O D P F G | V H H N P B O D P F G |  |  |  |  |  |  |  |  |                                                              |      |            |
| Sample Date     | 10/10/2024            | 10/10/2024            |  |  |  |  |  |  |  |  |                                                              |      |            |
| Sample Type     | Ground Water          | Ground Water          |  |  |  |  |  |  |  |  |                                                              |      |            |
| Batch Number    | 2                     | 2                     |  |  |  |  |  |  |  |  |                                                              |      |            |
| Date of Receipt | 11/10/2024            | 11/10/2024            |  |  |  |  |  |  |  |  |                                                              |      |            |
| PFAAS           |                       |                       |  |  |  |  |  |  |  |  |                                                              |      |            |
| PFBA            | -                     | 0.28 <sup>AA</sup>    |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFPeA           | -                     | 0.37                  |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHxA           | -                     | 0.15                  |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHpA           | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFOA            | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFNA            | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFDA            | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFUnA           | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFDaA           | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFTTrDA         | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFTeDA          | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHxDA          | -                     | <0.1                  |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| PFODA           | -                     | 0.1                   |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| PFBS            | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFPeS           | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHxS           | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFHpS           | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFOS            | -                     | 0.10                  |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFNS            | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFDS            | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFUnDS          | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFDaDS          | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFTTrDS         | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| HFPO-DA (Gen X) | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| HFPO-TA         | -                     | <1                    |  |  |  |  |  |  |  |  | <1                                                           | ug/l | TM135/PM12 |
| DONA            | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFMOPrA         | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| NFDHA           | -                     | <0.1                  |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| PFMOBA          | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| PFECHS          | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| 3:3 FTCA        | -                     | <0.1                  |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| 5:3 FTCA        | -                     | <0.5                  |  |  |  |  |  |  |  |  | <0.5                                                         | ug/l | TM135/PM12 |
| 7:3 FTCA        | -                     | 0.5                   |  |  |  |  |  |  |  |  | <0.1                                                         | ug/l | TM135/PM12 |
| PFEESA          | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| 9Cl-PF3ONS      | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| 11Cl-PF3OUdS    | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| 4:2 FTS         | -                     | <0.2                  |  |  |  |  |  |  |  |  | <0.2                                                         | ug/l | TM135/PM12 |
| 6:2 FTS         | -                     | <0.2                  |  |  |  |  |  |  |  |  | <0.2                                                         | ug/l | TM135/PM12 |
| 8:2 FTS         | -                     | <0.2                  |  |  |  |  |  |  |  |  | <0.2                                                         | ug/l | TM135/PM12 |
| FBSA            | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| FHxSA           | -                     | <0.05                 |  |  |  |  |  |  |  |  | <0.05                                                        | ug/l | TM135/PM12 |
| FOSA            | -                     | <1                    |  |  |  |  |  |  |  |  | <1                                                           | ug/l | TM135/PM12 |
| N-MeFOSA        | -                     | <1                    |  |  |  |  |  |  |  |  | <1                                                           | ug/l | TM135/PM12 |

Please see attached notes for all abbreviations and acronyms



## Element Materials Technology

**Client Name:** Ramboll  
**Reference:** 1620016166-003  
**Location:** Manor Farm  
**Contact:** Eleanor Brown  
**EMT Job No:** 24/17232

Report : Liquid

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HN<sub>3</sub>

[illegible]

## Element Materials Technology

Client Name: Ramboll  
 Reference: 1620016166-003  
 Location: Manor Farm  
 Contact: Eleanor Brown  
 EMT Job No: 24/17232

SVOC Report : Liquid

|                                     |                         |  |  |  |  |  |  |  |  |  |         |       |            |
|-------------------------------------|-------------------------|--|--|--|--|--|--|--|--|--|---------|-------|------------|
| EMT Sample No.                      | 145-156                 |  |  |  |  |  |  |  |  |  |         |       |            |
| Sample ID                           | BH2526                  |  |  |  |  |  |  |  |  |  |         |       |            |
| Depth                               | 2.50                    |  |  |  |  |  |  |  |  |  |         |       |            |
| COC No / misc                       |                         |  |  |  |  |  |  |  |  |  |         |       |            |
| Containers                          | V H H N N P B O D P F G |  |  |  |  |  |  |  |  |  |         |       |            |
| Sample Date                         | 10/10/2024              |  |  |  |  |  |  |  |  |  |         |       |            |
| Sample Type                         | Ground Water            |  |  |  |  |  |  |  |  |  |         |       |            |
| Batch Number                        | 2                       |  |  |  |  |  |  |  |  |  |         |       |            |
| Date of Receipt                     | 11/10/2024              |  |  |  |  |  |  |  |  |  |         |       |            |
| SVOC MS                             |                         |  |  |  |  |  |  |  |  |  | LOD/LOR | Units | Method No. |
| Phenols                             |                         |  |  |  |  |  |  |  |  |  |         |       |            |
| 2-Chlorophenol #                    | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 2-Methylphenol #                    | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| 2-Nitrophenol                       | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| 2,4-Dichlorophenol #                | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| 2,4-Dimethylphenol                  | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 2,4,5-Trichlorophenol #             | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| 2,4,6-Trichlorophenol               | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 4-Chloro-3-methylphenol #           | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| 4-Methylphenol                      | 2                       |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 4-Nitrophenol                       | <10                     |  |  |  |  |  |  |  |  |  | <10     | ug/l  | TM16/PM30  |
| Pentachlorophenol                   | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Phenol                              | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| PAHs                                |                         |  |  |  |  |  |  |  |  |  |         |       |            |
| 2-Chloronaphthalene #               | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 2-Methylnaphthalene #               | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Phthalates                          |                         |  |  |  |  |  |  |  |  |  |         |       |            |
| Bis(2-ethylhexyl) phthalate         | <5                      |  |  |  |  |  |  |  |  |  | <5      | ug/l  | TM16/PM30  |
| Butylbenzyl phthalate               | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Di-n-butyl phthalate #              | <1.5                    |  |  |  |  |  |  |  |  |  | <1.5    | ug/l  | TM16/PM30  |
| Di-n-Octyl phthalate                | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Diethyl phthalate #                 | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Dimethyl phthalate                  | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Other SVOCs                         |                         |  |  |  |  |  |  |  |  |  |         |       |            |
| 1,2-Dichlorobenzene #               | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 1,2,4-Trichlorobenzene #            | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 1,3-Dichlorobenzene #               | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 1,4-Dichlorobenzene #               | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 2-Nitroaniline                      | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 2,4-Dinitrotoluene #                | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| 2,6-Dinitrotoluene                  | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 3-Nitroaniline                      | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 4-Bromophenylphenylether #          | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 4-Chloroaniline                     | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 4-Chlorophenylphenylether #         | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| 4-Nitroaniline                      | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| Azobenzene #                        | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| Bis(2-chloroethoxy)methane #        | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| Bis(2-chloroethyl)ether #           | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Carbazole #                         | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| Dibenzofuran #                      | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| Hexachlorobenzene #                 | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Hexachlorobutadiene #               | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Hexachlorocyclopentadiene           | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Hexachloroethane #                  | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Isophorone #                        | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| N-nitrosodi-n-propylamine #         | <0.5                    |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM16/PM30  |
| Nitrobenzene #                      | <1                      |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM16/PM30  |
| Surrogate Recovery 2-Fluorobiphenyl | 98                      |  |  |  |  |  |  |  |  |  | <0      | %     | TM16/PM30  |
| Surrogate Recovery p-Terphenyl-d14  | 101                     |  |  |  |  |  |  |  |  |  | <0      | %     | TM16/PM30  |

Please see attached notes for all abbreviations and acronyms

## Element Materials Technology

Client Name: Ramboll  
 Reference: 1620016166-003  
 Location: Manor Farm  
 Contact: Eleanor Brown  
 EMT Job No: 24/17232

VOC Report : Liquid

| EMT Sample No.                 | 145-156               |  |  |  |  |  |  |  |  |  |         |       |            |
|--------------------------------|-----------------------|--|--|--|--|--|--|--|--|--|---------|-------|------------|
| Sample ID                      | BH2526                |  |  |  |  |  |  |  |  |  |         |       |            |
| Depth                          | 2.50                  |  |  |  |  |  |  |  |  |  |         |       |            |
| COC No / misc                  |                       |  |  |  |  |  |  |  |  |  |         |       |            |
| Containers                     | V H H N P B O D P F G |  |  |  |  |  |  |  |  |  |         |       |            |
| Sample Date                    | 10/10/2024            |  |  |  |  |  |  |  |  |  |         |       |            |
| Sample Type                    | Ground Water          |  |  |  |  |  |  |  |  |  |         |       |            |
| Batch Number                   | 2                     |  |  |  |  |  |  |  |  |  |         |       |            |
| Date of Receipt                | 11/10/2024            |  |  |  |  |  |  |  |  |  |         |       |            |
|                                |                       |  |  |  |  |  |  |  |  |  | LOD/LOR | Units | Method No. |
| VOC MS                         |                       |  |  |  |  |  |  |  |  |  |         |       |            |
| Dichlorodifluoromethane        | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Methyl Tertiary Butyl Ether #  | <0.1                  |  |  |  |  |  |  |  |  |  | <0.1    | ug/l  | TM15/PM10  |
| Chloromethane #                | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Vinyl Chloride #               | <0.1                  |  |  |  |  |  |  |  |  |  | <0.1    | ug/l  | TM15/PM10  |
| Bromomethane                   | <1                    |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM15/PM10  |
| Chloroethane #                 | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Trichlorofluoromethane #       | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,1-Dichloroethene (1,1 DCE) # | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Carbon Disulphide #            | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Dichloromethane (DCM) #        | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| trans-1-2-Dichloroethene #     | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,1-Dichloroethane #           | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| cis-1-2-Dichloroethene #       | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 2,2-Dichloropropane            | <1                    |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM15/PM10  |
| Bromochloromethane #           | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Chloroform #                   | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,1,1-Trichloroethane #        | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,1-Dichloropropene #          | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Carbon tetrachloride #         | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2-Dichloroethane #           | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Benzene #                      | <0.5                  |  |  |  |  |  |  |  |  |  | <0.5    | ug/l  | TM15/PM10  |
| Trichloroethene (TCE) #        | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,2-Dichloropropane #          | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Dibromomethane #               | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Bromodichloromethane #         | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| cis-1-3-Dichloropropene        | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Toluene #                      | <5                    |  |  |  |  |  |  |  |  |  | <5      | ug/l  | TM15/PM10  |
| trans-1-3-Dichloropropene      | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,1,2-Trichloroethane #        | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Tetrachloroethene (PCE) #      | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,3-Dichloropropane #          | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Dibromochloromethane #         | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2-Dibromoethane #            | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Chlorobenzene #                | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,1,1,2-Tetrachloroethane #    | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Ethylbenzene #                 | <1                    |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM15/PM10  |
| m/p-Xylene #                   | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| o-Xylene #                     | <1                    |  |  |  |  |  |  |  |  |  | <1      | ug/l  | TM15/PM10  |
| Styrene                        | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Bromoform #                    | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| Isopropylbenzene #             | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,1,2,2-Tetrachloroethane      | <4                    |  |  |  |  |  |  |  |  |  | <4      | ug/l  | TM15/PM10  |
| Bromobenzene #                 | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2,3-Trichloropropane #       | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Propylbenzene #                | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 2-Chlorotoluene #              | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,3,5-Trimethylbenzene #       | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 4-Chlorotoluene #              | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| tert-Butylbenzene #            | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,2,4-Trimethylbenzene #       | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| sec-Butylbenzene #             | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 4-Isopropyltoluene #           | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,3-Dichlorobenzene #          | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,4-Dichlorobenzene #          | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| n-Butylbenzene #               | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,2-Dichlorobenzene #          | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| 1,2-Dibromo-3-chloropropane    | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2,4-Trichlorobenzene         | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Hexachlorobutadiene            | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Naphthalene                    | <2                    |  |  |  |  |  |  |  |  |  | <2      | ug/l  | TM15/PM10  |
| 1,2,3-Trichlorobenzene         | <3                    |  |  |  |  |  |  |  |  |  | <3      | ug/l  | TM15/PM10  |
| Surrogate Recovery Toluene D8  | 83                    |  |  |  |  |  |  |  |  |  | <0      | %     | TM15/PM10  |

Please see attached notes for all abbreviations and acronyms

Please include all sections of this report if it is reproduced

**VOC Report :**        **Liquid**

Please see attached notes for all abbreviations and acronyms

[illegible]

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

EMT Job No.: 24/17232

**SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

**WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

**STACK EMISSIONS**

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

**DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

**SURROGATES**

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

**DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

**BLANKS**

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**NOTE**

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

**REPORTS FROM THE SOUTH AFRICA LABORATORY**

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

**Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

**Customer Provided Information**

Sample ID and depth is information provided by the customer.

**Age of Diesel**

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

**Tentatively Identified Compounds (TICs)**

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

## ABBREVIATIONS and ACRONYMS USED

|         |                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #       | ISO17025 (UKAS Ref No. 4225) accredited - UK.                                                                                                                            |
| SA      | ISO17025 (SANAS Ref No.T0729) accredited - South Africa                                                                                                                  |
| B       | Indicates analyte found in associated method blank.                                                                                                                      |
| DR      | Dilution required.                                                                                                                                                       |
| M       | MCERTS accredited.                                                                                                                                                       |
| NA      | Not applicable                                                                                                                                                           |
| NAD     | No Asbestos Detected.                                                                                                                                                    |
| ND      | None Detected (usually refers to VOC and/SVOC TICs).                                                                                                                     |
| NDP     | No Determination Possible                                                                                                                                                |
| SS      | Calibrated against a single substance                                                                                                                                    |
| SV      | Surrogate recovery outside performance criteria. This may be due to a matrix effect.                                                                                     |
| W       | Results expressed on as received basis.                                                                                                                                  |
| +       | AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.                                                               |
| >>      | Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher. |
| *       | Analysis subcontracted to an Element Materials Technology approved laboratory.                                                                                           |
| CO      | Suspected carry over                                                                                                                                                     |
| LOD/LOR | Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS                                                                                                |
| ME      | Matrix Effect                                                                                                                                                            |
| NFD     | No Fibres Detected                                                                                                                                                       |
| BS      | AQC Sample                                                                                                                                                               |
| LB      | Blank Sample                                                                                                                                                             |
| N       | Client Sample                                                                                                                                                            |
| TB      | Trip Blank Sample                                                                                                                                                        |
| OC      | Outside Calibration Range                                                                                                                                                |
|         |                                                                                                                                                                          |
| AA      | x5 Dilution                                                                                                                                                              |
| AB      | x6 Dilution                                                                                                                                                              |
| AC      | x10 Dilution                                                                                                                                                             |
| AD      | x12 Dilution                                                                                                                                                             |
| AE      | x50 Dilution                                                                                                                                                             |
| AF      | x920 Dilution                                                                                                                                                            |





# HWOL ACRONYMS AND OPERATORS USED

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| HS    | Headspace Analysis.                                                  |
| EH    | Extractable Hydrocarbons - i.e. everything extracted by the solvent. |
| CU    | Clean-up - e.g. by florisil, silica gel.                             |
| 1D    | GC - Single coil gas chromatography.                                 |
| Total | Aliphatics & Aromatics.                                              |
| AL    | Aliphatics only.                                                     |
| AR    | Aromatics only.                                                      |
| 2D    | GC-GC - Double coil gas chromatography.                              |
| #1    | EH_Total but with humics mathematically subtracted                   |
| #2    | EU_Total but with fatty acids mathematically subtracted              |
| _     | Operator - underscore to separate acronyms (exception for +).        |
| +     | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total   |
| MS    | Mass Spectrometry.                                                   |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/17232

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                       | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM4             | Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.                                                                                                                                                                                                                                | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM5             | Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.                                                                                                                | PM16/PM30                        | Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.  | Yes                   |                        |                                                 |                              |
| TM5/TM36        | please refer to TM5 and TM36 for method details                                                                                                                                                                                                                                                                                   | PM12/PM16/PM30                   | please refer to PM16/PM30 and PM12 for method details                                                                                                              | Yes                   |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                 | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           |                       |                        |                                                 |                              |
| TM15            | Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.                                                                                                                                                                                                                 | PM10                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                                                           | Yes                   |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                     | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              |                       |                        |                                                 |                              |
| TM16            | Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.                                                                                                                                                                                                                     | PM30                             | Water samples are extracted with solvent using a magnetic stirrer to create a vortex.                                                                              | Yes                   |                        |                                                 |                              |
| TM26            | Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.                                                                                                                                                                                                                | PM0                              | No preparation is required.                                                                                                                                        |                       |                        |                                                 |                              |
| TM30            | Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/17232

| Test Method No. | Description                                                                                                                                                                                                                                                                                                                     | Prep Method No. (if appropriate) | Description                                                                                                             | ISO 17025 (UKAS/ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------------|------------------------------|
| TM36            | Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GCFID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested. | PM12                             | Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.                | Yes                   |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I                          | PM0                              | No preparation is required.                                                                                             |                       |                        |                                                 |                              |
| TM38            | Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I                          | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM57            | Modified US EPA Method 410.4. (Rev. 2.0 1993) Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.                                                                                                                              | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM58            | APHA SMEWW 5210B:1999 22nd Edition. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am                                                                 | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM60            | TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.                                                                                                    | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM73            | Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.                                                                                                                                                                                       | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM75            | Modified US EPA method 310.1 (1978). Determination of Alkalinity by Metrohm automated titration analyser.                                                                                                                                                                                                                       | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM89            | Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.                                                                                                                                          | PM0                              | No preparation is required.                                                                                             | Yes                   |                        |                                                 |                              |
| TM135           | Analysis of PFAS compounds in Water and Soil by LC-MS/MS                                                                                                                                                                                                                                                                        | PM121                            | Preparation of PFAS liquid samples – As received samples are centrifuged and the supernatant is used for PFAS analysis. |                       |                        |                                                 |                              |

## Element Materials Technology

## Method Code Appendix

EMT Job No: 24/17232

| Test Method No. | Description                                                                                                                                                                                                      | Prep Method No. (if appropriate) | Description                                                                                                                                                        | ISO 17025 (UKAS/S ANAS) | MCERTS (UK soils only) | Analysis done on As Received (AR) or Dried (AD) | Reported on dry weight basis |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|-------------------------------------------------|------------------------------|
| TM170           | Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma-Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016 | PM14                             | Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified | Yes                     |                        |                                                 |                              |
| TM176           | Free ammonia based on the pH and temperature dependent equilibrium calculated in accordance with NRA Water Quality Objectives 1994 using the ammoniacal nitrogen result.                                         | PM0                              | No preparation is required.                                                                                                                                        |                         |                        |                                                 |                              |
| NONE            | No Method Code                                                                                                                                                                                                   | NONE                             | No Method Code                                                                                                                                                     |                         |                        |                                                 |                              |
| Subcontracted   | See attached subcontractor report for accreditation status and provider.                                                                                                                                         |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |
|                 |                                                                                                                                                                                                                  |                                  |                                                                                                                                                                    |                         |                        |                                                 |                              |

## Appendix 7 Monitoring Results

| GAS MONITORING FIELD DATA |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         | RAMBOLL                                                                                                                                                                    |  |
|---------------------------|----------|----------------------------------------------------------------------------------------------|-------------|------------------------|------------------|----------------|------------------|-----------|--------------|----------|--------------------|-----------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Project:                  |          | 1620016166-002                                                                               |             |                        |                  |                |                  |           | Site:        |          | Manor Farm         |           |          |         |                                                                                                                                                                            |  |
| Monitored by:             |          | EB/PJ                                                                                        |             |                        |                  |                |                  |           | Date & Time: |          | 26/02/2024         |           |          |         |                                                                                                                                                                            |  |
| Equipment:                |          | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser s/n 10244. |             |                        |                  |                |                  |           | Weather:     |          | Windy, cloudy, 7DC |           |          |         |                                                                                                                                                                            |  |
| Atmospheric Pressure:     |          | 1003                                                                                         |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| Location                  | Time     | DTW (m bgl)                                                                                  | DTB (m bgl) | Time From Start (Secs) | Baro Pressure mb | Peak Flow l/hr | Steady Flow l/hr | CH4 % v/v | CO2 % v/v    | O2 % v/v | LEL % v/v          | H2S % v/v | CO % v/v | PID ppm | Notes                                                                                                                                                                      |  |
| BH2499                    |          | 0.34                                                                                         | 1.19        | 10                     | 1003             | 0              | 0                | 0.7       | 0            | 15.2     | 0                  | 0         | 0        | 0       | GW measured from ground level (top hat 0.36m). Borehole sampled from 0.85m bgl.                                                                                            |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 0         | 0            | 20.3     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0         | 0            | 20.4     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0         | 0            | 20.5     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0         | 0            | 20.4     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| BH2518                    | 09:30:00 | 0.34                                                                                         | 1.19        |                        |                  |                |                  |           |              |          |                    |           |          |         | GW measured from ground level (top hat 0.36m). Borehole sampled from 0.85m bgl.                                                                                            |  |
| WS07                      | 14:00:00 | 1.58                                                                                         | 2.59        | 10                     | 1008             | 0              | 0                | 0         | 0.2          | 21.6     | 0                  | 0         | 0        | 0.1     | GW measured from ground level (top hat 0.43m). Borehole sampled from 1.21m bgl.                                                                                            |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 0         | 0.2          | 21.6     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0         | 0.2          | 21.6     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0         | 0.2          | 21.6     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0         | 0.2          | 21.6     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| Monitored by:             |          | EB/PJ                                                                                        |             |                        |                  |                |                  |           | Date & Time: |          | 27/02/2024         |           |          |         |                                                                                                                                                                            |  |
| Equipment:                |          | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser s/n 10244. |             |                        |                  |                |                  |           | Weather:     |          | Clear, cold, 4DC   |           |          |         |                                                                                                                                                                            |  |
| Atmospheric Pressure:     |          | 1017                                                                                         |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| BH2488                    | 09:08:00 | 0.77                                                                                         | 3.07        | 10                     | 1018             | 0.1            | 0                | 15.7      | 0.2          | 11.6     | >                  | 0         | 3        | 0.4     | GW measured from ground level (flush cover). Strong sulphurous odour. Borehole measured for 5 minutes due to elevated methane.                                             |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 19.1      | 1.7          | 0.2      | >                  | 0         | 10       |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 20.6      | 1.7          | 0.2      | >                  | 0         | 14       |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 20.9      | 1.7          | 0        | >                  | 0         | 19       |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 21.1      | 1.7          | 0        | >                  | 0         | 19       |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 300                    |                  |                |                  | 21        | 1.7          | 0        | >                  | 0         | 21       |         |                                                                                                                                                                            |  |
| BH2526                    |          | 1.36                                                                                         | 3.73        |                        |                  |                |                  |           |              |          |                    |           |          |         | GW measured from ground level (flush cover). Strong sulphurous odour. Black staining on bailer string. Black silty water. Groundwater sample taken from base using bailer. |  |
| BH2484                    | 09:45:00 | Flooded                                                                                      | 3.7         |                        |                  |                |                  |           |              |          |                    |           |          |         | GW measured from ground level (flush cover). Borehole flooded, surface water above well, not possible to gas monitor.                                                      |  |
| BH2527                    |          | 0.08                                                                                         | 3.65        |                        |                  |                |                  |           |              |          |                    |           |          |         | GW measured from ground level (flush cover). Black silty water, orange suspended solids. Groundwater sample taken from base using bailer.                                  |  |
| WS13                      | 11:29:00 | 1.72                                                                                         | 4           | 10                     | 1017             | 0.1            | 0                | 0.2       | 0            | 20.7     | 4.5                | 0         | 0        | 0.1     | GW measured from ground level (flush cover). Black silty water. Groundwater sample taken from base using bailer.                                                           |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 0         | 0            | 21.7     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0         | 0            | 21.7     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0         | 0            | 21.7     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0         | 0            | 21.7     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| WS18                      | 11:53:00 | 2.02                                                                                         | 3.96        | 10                     | 1017             | 0              | 0                | 0         | 1.8          | 20.4     | 0                  | 0         | 0        | 0.3     | GW measured from ground level (top hat 0.37m). Dark brown silty water. Groundwater sample taken from base using bailer.                                                    |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 0         | 2            | 17.6     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0         | 2            | 17.5     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0         | 2.1          | 17.3     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0         | 2.2          | 16.9     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| WS16                      | 12:19:00 | 1.63                                                                                         | 2.85        | 10                     | 1017             | 0.1            | 0                | 0         | 0.6          | 21.2     | 0                  | 0         | 0        | 0.1     | GW measured from ground level (top hat 0.33m). Groundwater sample taken from base using bailer.                                                                            |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 0         | 0.6          | 20.3     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0         | 0.6          | 20.4     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0         | 0.5          | 20.3     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0         | 0.6          | 20.3     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| BH2496                    | 13:52:00 | 1.23                                                                                         | 2.51        | 10                     | 1016             | 0              | 0                | 0         | 0            | 22.5     | 0                  | 0         | 0        | 0       | GW measured from ground level (top hat 0.3m). Groundwater sample taken from base using bailer.                                                                             |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 0         | 0            | 22       | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0         | 0            | 21.9     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0         | 0            | 21.8     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0         | 0            | 21.8     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| BH2513                    |          | 1.37                                                                                         | 4.64        |                        |                  |                |                  |           |              |          |                    |           |          |         | GW measured from ground level (top hat 0.24m). Orange suspended solids.                                                                                                    |  |
| BH2501                    | 16:42:00 | 1.03                                                                                         | 1.92        | 10                     | 1016             | 0              | 0                | 0         | 3.7          | 18.6     | 0                  | 0         | 0        | 0.2     | GW measured from ground level (top hat 0.33m).                                                                                                                             |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 0         | 4.2          | 9.3      | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0         | 4.3          | 0.9      | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0         | 4.3          | 8.8      | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0         | 4.3          | 8.8      | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| BH2516                    |          | 1.18                                                                                         | 6.18        |                        |                  |                |                  |           |              |          |                    |           |          |         | GW measured from ground level (top hat 0.37m). Groundwater sample taken from base using bailer.                                                                            |  |
| BH2506                    | 15:03:00 | 0.27                                                                                         | 1.2         | 10                     | 1014             | 0              | 0                | 0         | 0.1          | 20.6     | 0                  | 0         | 0        | 0       | GW measured from ground level (flush cover).                                                                                                                               |  |
|                           |          |                                                                                              |             | 30                     |                  |                |                  | 0         | 0.1          | 20.8     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0         | 0.1          | 20.7     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0         | 0.1          | 20.6     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0         | 0.1          | 20.5     | 0                  | 0         | 0        |         |                                                                                                                                                                            |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         |                                                                                                                                                                            |  |
| BH2520                    |          |                                                                                              |             |                        |                  |                |                  |           |              |          |                    |           |          |         | GW measured from ground level (flush cover). Groundwater sample taken from base using bailer.                                                                              |  |

|                       |                                                                                   |      |      |     |      |   |   |              |      |                                             |   |    |   |                                                                                                                                                               |                                                                                                    |
|-----------------------|-----------------------------------------------------------------------------------|------|------|-----|------|---|---|--------------|------|---------------------------------------------|---|----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Monitored by:         | EB                                                                                |      |      |     |      |   |   | Date & Time: |      | 15/03/2024                                  |   |    |   |                                                                                                                                                               |                                                                                                    |
| Equipment:            | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser |      |      |     |      |   |   | Weather:     |      | Showers, cloudy, very wet ground conditions |   |    |   |                                                                                                                                                               |                                                                                                    |
| Atmospheric Pressure: | 1004                                                                              |      |      |     |      |   |   |              |      |                                             |   |    |   |                                                                                                                                                               |                                                                                                    |
| BH2497                | 08:57:00                                                                          | 1.76 | 1.86 | 10  | 1004 | 0 | 0 | 36.2         | 13.2 | 13.6                                        | > | 0  | 0 | 0.5                                                                                                                                                           | GW measured from ground level (top hat 0.29m).                                                     |
|                       |                                                                                   |      |      | 30  |      |   |   | 39.9         | 13.4 | 1.6                                         | > | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 60  |      |   |   | 40.1         | 13.6 | 1.6                                         | > | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 120 |      |   |   | 38.4         | 13.4 | 2.7                                         | > | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 180 |      |   |   | 28.9         | 12.4 | 5.6                                         | > | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 300 |      |   |   | 10.9         | 6.4  | 13                                          | > | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 600 |      |   |   | 14.4         | 6.8  | 11.2                                        | > | 0  | 0 |                                                                                                                                                               |                                                                                                    |
| BH2522                |                                                                                   | 1.76 | 1.86 |     |      |   |   |              |      |                                             |   |    |   | GW measured from ground level (top hat 0.29m).<br>Groundwater sample taken from base using bailer.<br>Black suspended solids and orange oxide in groundwater. |                                                                                                    |
| BH2495                | 09:17:00                                                                          | 2.49 | 3.02 | 10  | 1003 | 0 | 0 | 27.3         | 4.8  | 8                                           | > | 0  | 0 | 0                                                                                                                                                             | GW measured from ground level (flush cover).<br>Sulphurous odour.                                  |
|                       |                                                                                   |      |      | 30  |      |   |   | 30.2         | 4.8  | 0.7                                         | > | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 60  |      |   |   | 30.9         | 4.9  | 0.2                                         | > | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 120 |      |   |   | 31.9         | 4.9  | 0                                           | > | 4  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 180 |      |   |   | 32.2         | 4.9  | 0                                           | > | 7  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 300 |      |   |   | 32.7         | 4.9  | 0                                           | > | 9  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 600 |      |   |   | 33.6         | 4.9  | 0                                           | > | 13 | 0 |                                                                                                                                                               |                                                                                                    |
| BH2517                |                                                                                   | 2.51 | 6.53 |     |      |   |   |              |      |                                             |   |    |   | GW measured from ground level (flush cover).<br>Groundwater sample taken from base using bailer.                                                              |                                                                                                    |
| BH2498                | 09:37:00                                                                          | 1.97 | 2.33 | 10  | 1003 | 0 | 0 | 0            | 0.5  | 19.4                                        | 0 | 0  | 0 | 0.1                                                                                                                                                           | GW measured from ground level (top hat 0.45m).                                                     |
|                       |                                                                                   |      |      | 30  |      |   |   | 0            | 0.5  | 20.2                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 60  |      |   |   | 0            | 0.5  | 20.2                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 120 |      |   |   | 0            | 0.5  | 20.2                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 180 |      |   |   | 0            | 0.4  | 20.3                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
| BH2514                |                                                                                   | 2.06 | 4.75 | 10  | 1004 | 0 | 0 | 0            | 0.5  | 19.9                                        | 0 | 0  | 0 | 0                                                                                                                                                             | GW measured from ground level (top hat 0.37m).<br>Groundwater sample taken from base using bailer. |
|                       |                                                                                   |      |      | 30  |      |   |   | 0            | 0.4  | 19.1                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 60  |      |   |   | 0            | 0.3  | 19.4                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 120 |      |   |   | 0            | 0.1  | 20.1                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 180 |      |   |   | 0            | 0.1  | 20.2                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
| BH2496                | 09:54:00                                                                          | 1.22 | v    | 10  | 1003 | 0 | 0 | 0            | 1.6  | 19                                          | 0 | 0  | 0 | 0                                                                                                                                                             | GW measured from ground level (top hat 0.29m).                                                     |
|                       |                                                                                   |      |      | 30  |      |   |   | 0            | 1.6  | 18.6                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 60  |      |   |   | 0            | 1.6  | 18.5                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 120 |      |   |   | 0            | 1.7  | 18.5                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
|                       |                                                                                   |      |      | 180 |      |   |   | 0            | 1.6  | 18.5                                        | 0 | 0  | 0 |                                                                                                                                                               |                                                                                                    |
| BH2513                |                                                                                   | 1.34 | 4.64 |     |      |   |   |              |      |                                             |   |    |   | GW measured from ground level (top hat 0.24m).<br>Groundwater sample taken from base using bailer.                                                            |                                                                                                    |



| GAS MONITORING FIELD DATA |          |                                                                                       |             |                        |                  |                |                  |              |           |                |           |           |          |                                                                                                              |                                                                                                                                      |  |
|---------------------------|----------|---------------------------------------------------------------------------------------|-------------|------------------------|------------------|----------------|------------------|--------------|-----------|----------------|-----------|-----------|----------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|
| Project:                  |          | 1620016166-003                                                                        |             |                        |                  |                |                  | Site:        |           | Manor Farm     |           |           |          |                                                                                                              |                                                                                                                                      |  |
| Monitored by:             |          | PJ/EB                                                                                 |             |                        |                  |                |                  | Date & Time: |           | 10/04/2024     |           |           |          |                                                                                                              |                                                                                                                                      |  |
| Equipment:                |          | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser s/n |             |                        |                  |                |                  | Weather:     |           | Windy, cloudy, |           |           |          |                                                                                                              |                                                                                                                                      |  |
| Atmospheric Pressure:     |          | 1022                                                                                  |             |                        |                  |                |                  |              |           |                |           |           |          |                                                                                                              |                                                                                                                                      |  |
| Location                  | Time     | DTW (m bgl)                                                                           | DTB (m bgl) | Time From Start (Secs) | Baro Pressure mb | Peak Flow l/hr | Steady Flow l/hr | CH4 % v/v    | CO2 % v/v | O2 % v/v       | LEL % v/v | H2S % v/v | CO % v/v | PID ppm                                                                                                      | Notes                                                                                                                                |  |
| Comments                  |          |                                                                                       |             |                        |                  |                |                  |              |           |                |           |           |          |                                                                                                              |                                                                                                                                      |  |
| BH2499                    |          | 0.89                                                                                  | 1.56        | 10                     | 1022             | 0              | 0                | 0            | 0.3       | 20.0           | 0         | 0         | 0        | 0                                                                                                            | GW measured from ground level (top hat 0.38m).                                                                                       |  |
|                           |          |                                                                                       |             | 30                     |                  |                |                  | 0            | 0.3       | 20.0           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 60                     |                  |                |                  | 0            | 0.3       | 20.0           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 120                    |                  |                |                  | 0            | 0.2       | 20.0           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 180                    |                  |                |                  | 0            | 0.2       | 20.0           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
| BH2518                    |          | 0.89                                                                                  | 1.89        |                        |                  |                |                  |              |           |                |           |           |          |                                                                                                              | GW measured from ground level (top hat 0.38m).<br>Borehole sampled from 0.75m bgl.                                                   |  |
| BH2501                    |          | 1.85                                                                                  | 2.25        | 10                     | 1021             | 0              | 0                | 0            | 7.0       | 9.3            | 0         | 0         | 0        | 0                                                                                                            | GW measured from ground level (top hat 0.32m).                                                                                       |  |
|                           |          |                                                                                       |             | 30                     |                  |                |                  | 0            | 7.0       | 9.3            | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 60                     |                  |                |                  | 0            | 7.2       | 9.0            | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 120                    |                  |                |                  | 0            | 7.3       | 8.9            | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 180                    |                  |                |                  | 0            | 7.3       | 8.9            | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
| BH2516                    |          | 2                                                                                     | 6.6         |                        |                  |                |                  |              |           |                |           |           |          |                                                                                                              | GW measured from ground level (top hat 0.37m).<br>Borehole sampled from 3.30m bgl.                                                   |  |
| BH2506                    |          | 0.58                                                                                  | 1.2         | 30                     | 1021             | 0              | 0                | 0            | 0.2       | 19.9           | 0         | 0         | 0        | 0                                                                                                            | GW measured from ground level (flush cover).                                                                                         |  |
|                           |          |                                                                                       |             | 60                     |                  |                |                  | 0            | 0.1       | 19.9           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 120                    |                  |                |                  | 0            | 0.1       | 20.1           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 180                    |                  |                |                  | 0            | 0.1       | 20.3           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 360                    |                  |                |                  | 0            | 0.1       | 20.3           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
| BH2520                    |          | 1.4                                                                                   | 4.12        | 420                    | 0                | 0              | 20.3             | 0            | 0         | 0              |           |           |          | GW measured from ground level (flush cover).<br>Groundwater sample taken from 2.00m using low-flow sampling. |                                                                                                                                      |  |
|                           |          |                                                                                       |             |                        |                  |                |                  |              |           |                |           |           |          |                                                                                                              |                                                                                                                                      |  |
| BH2496                    | 09:17:00 | 1.59                                                                                  | 2.58        | 10                     | 998              | 0.2            | 0                | 0            | 3.1       | 19.2           | 0         | 0         | 0        | 0                                                                                                            | GW measured from ground level (top hat 0.25m).                                                                                       |  |
|                           |          |                                                                                       |             | 30                     |                  |                |                  | 0            | 3.7       | 14.5           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 60                     |                  |                |                  | 0            | 3.7       | 14.2           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 120                    |                  |                |                  | 0            | 3.8       | 14.2           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 180                    |                  |                |                  | 0            | 3.8       | 14.1           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
| BH2513                    |          | 1.58                                                                                  | 4.7         |                        |                  |                |                  |              |           |                |           |           |          |                                                                                                              | GW measured from ground level (top hat 0.25m).                                                                                       |  |
| BH2498                    | 10:29:00 | 1.91                                                                                  | 2.32        | 10                     | 1000             | 0              | 0                | 0            | 0.6       | 19.8           | 0         | 0         | 0        | 0.1                                                                                                          | GW measured from ground level (top hat 0.45m).                                                                                       |  |
|                           |          |                                                                                       |             | 30                     |                  |                |                  | 0.1          | 0.6       | 19.7           | 2.7       | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 60                     |                  |                |                  | 0.2          | 0.6       | 19.7           | 4.5       | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 120                    |                  |                |                  | 0.1          | 0.6       | 19.8           | 4.1       | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 180                    |                  |                |                  | 0            | 0.5       | 19.8           | 1.7       | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
| BH2514                    |          | 2.27                                                                                  | 4.77        | 10                     | 1000             | 0.1            | 0                | 0            | 0.5       | 19.9           | 0         | 0         | 0        | 0                                                                                                            | GW measured from ground level (top hat 0.35m).<br>Black staining on bailer and string in the well.<br>Hydrocarbon odour, silty base. |  |
|                           |          |                                                                                       |             | 30                     |                  |                |                  | 0            | 0.4       | 19             | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 60                     |                  |                |                  | 0            | 0.3       | 19.5           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 120                    |                  |                |                  | 0            | 0.2       | 19.8           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 180                    |                  |                |                  | 0            | 0.1       | 19.9           | 0         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
| BH2495                    |          | 2.59                                                                                  | 3.02        | 10                     | 1001             | 0.1            | 0                | 21.2         | 5.9       | 12.2           | >         | 0         | 0        | 5.2                                                                                                          | GW measured from ground level (flush cover).<br>Sulphurous odour.                                                                    |  |
|                           |          |                                                                                       |             | 30                     |                  |                |                  | 23.7         | 6.1       | 0.7            | >         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 60                     |                  |                |                  | 24.1         | 6.3       | 0              | >         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 120                    |                  |                |                  | 24.4         | 6.4       | 0              | >         | 1         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 180                    |                  |                |                  | 24.5         | 6.4       | 0              | >         | 3         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 300                    |                  |                |                  | 24.1         | 6.5       | 0              | >         | 1         | 0        |                                                                                                              |                                                                                                                                      |  |
|                           |          |                                                                                       |             | 600                    |                  |                |                  | 18.7         | 7         | 1.1            | >         | 0         | 0        |                                                                                                              |                                                                                                                                      |  |
| BH2517                    |          | 2.69                                                                                  | 6.53        |                        |                  |                |                  |              |           |                |           |           |          |                                                                                                              | GW measured from ground level (flush cover).<br>Black staining on bailer and string and slight hydrocarbon odour.                    |  |

| GAS MONITORING FIELD DATA |          |                                                                                              |             |                        |                  |                |                  |              |           |                |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
|---------------------------|----------|----------------------------------------------------------------------------------------------|-------------|------------------------|------------------|----------------|------------------|--------------|-----------|----------------|-----------|-----------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--|--|
| Project:                  |          | 1620016166-003                                                                               |             |                        |                  |                |                  | Site:        |           | Manor Farm     |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| Monitored by:             |          | PJ                                                                                           |             |                        |                  |                |                  | Date & Time: |           | 08/07/2024     |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| Equipment:                |          | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser s/n 10244. |             |                        |                  |                |                  | Weather:     |           | Windy, cloudy, |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| Atmospheric Pressure:     |          | 1012                                                                                         |             |                        |                  |                |                  |              |           |                |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| Location                  | Time     | DTW (m bgl)                                                                                  | DTB (m bgl) | Time From Start (Secs) | Baro Pressure mb | Peak Flow l/hr | Steady Flow l/hr | CH4 % v/v    | CO2 % v/v | O2 % v/v       | LEL % v/v | H2S % v/v | CO % v/v | PID ppm | Notes                                                                                                                              |                                                                                                            |  |  |
| WS13                      | 09:35:00 | 1.97                                                                                         | 4           | 30                     | 1012             | 0              | 0                | 46.3         | 9.3       | 0.8            | >         | 2         | 0        | 3.4     | GW measured from ground level (flush cover).<br>Black cloudy water.<br>Groundwater sample taken from base using low-flow sampling. |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 47.3         | 9.4       | 0.3            | >         | 3         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 48.1         | 9.5       | 0.2            | >         | 4         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 48.4         | 9.5       | 0.1            | >         | 4         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 360                    |                  |                |                  | 48.5         | 9.5       | 0.1            | >         | 6         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 420                    |                  |                |                  | 48.5         | 9.5       | 0.1            | >         | 6         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |              |           |                |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| BH2518                    | 14:11:00 | 1.04                                                                                         | 3.2         |                        |                  |                |                  |              |           |                |           |           |          |         | 0.1                                                                                                                                | GW measured from ground level (top hat 0.36m).<br>Borehole sampled from bgl.                               |  |  |
| BH2499                    |          |                                                                                              |             | 30                     | 1010             | 0              | 0                | 1            | 0.4       | 16.3           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0.8          | 0.3       | 18.2           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0.4          | 0.3       | 19.4           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0.4          | 0.3       | 19.4           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 360                    |                  |                |                  | 0            | 0         | 20.2           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 420                    |                  |                |                  | 0            | 0         | 20.2           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |              |           |                |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| BH2517                    | 11:15:00 | 3.43                                                                                         | 6.54        |                        |                  |                |                  |              |           |                |           |           |          |         | 28                                                                                                                                 | GW measured from ground level (flush cover).<br>Groundwater sample taken from base using low-flow sampling |  |  |
| BH2495                    |          |                                                                                              |             | 30                     | 1010             | 0              | 0                | 1.7          | 0.4       | 20.2           | 38.2      | 1         | 11       |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0.8          | 0.3       | 20.4           | 8.5       | 3         | 11       |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0.2          | 2.3       | 17.9           | 5.3       | 2         | 1        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0.1          | 2.3       | 17.5           | 3.6       | 1         | 1        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 360                    |                  |                |                  | 0            | 2.2       | 18.1           | 0.9       | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 420                    |                  |                |                  | 0            | 2.1       | 18.1           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |              |           |                |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| BH2522                    | 11:15:00 | 2.27                                                                                         | 5.3         |                        |                  |                |                  |              |           |                |           |           |          |         | 1.1                                                                                                                                | GW measured from ground level (top hat 0.30m).<br>Groundwater sample taken from base using low-flow.       |  |  |
| BH2497                    |          |                                                                                              |             | 30                     | 1010             | 0              | 0                | 41.5         | 12.3      | 18.9           | >         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 40.1         | 11        | 16.3           | >         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 39.7         | 7.8       | 14.1           | >         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 23.4         | 7.4       | 11.2           | >         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 360                    |                  |                |                  | 22.1         | 7.4       | 11.2           | >         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 420                    |                  |                |                  | 22.1         | 7.4       | 11.2           | >         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |              |           |                |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| Monitored by:             |          | PJ                                                                                           |             |                        |                  |                |                  | Date & Time: |           | 08/07/2024     |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| Equipment:                |          | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser s/n        |             |                        |                  |                |                  | Weather:     |           | Windy, cloudy, |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| Atmospheric Pressure:     |          | 1005                                                                                         |             |                        |                  |                |                  |              |           |                |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |
| BH2527                    | 11:15:00 | 1.03                                                                                         | 3.65        |                        |                  |                |                  |              |           |                |           |           |          |         | 0                                                                                                                                  | GW measured from ground level (flush cover).<br>Groundwater sample taken from base using low-flow sampling |  |  |
| BH2484                    |          |                                                                                              |             | 30                     | 1005             | 0              | 0                | 0            | 0         | 20.8           | 0         | 2         | 8        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0            | 0         | 20.8           | 0.4       | 2         | 8        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0            | 0         | 20.7           | 0         | 2         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0            | 0         | 20.7           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 360                    |                  |                |                  | 0            | 0         | 20.6           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             | 420                    |                  |                |                  | 0            | 0         | 20.6           | 0         | 0         | 0        |         |                                                                                                                                    |                                                                                                            |  |  |
|                           |          |                                                                                              |             |                        |                  |                |                  |              |           |                |           |           |          |         |                                                                                                                                    |                                                                                                            |  |  |

|        |          |                           |               |        |      |      |      |     |      |     |      |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|--------|----------|---------------------------|---------------|--------|------|------|------|-----|------|-----|------|------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------|---|
| BH2526 |          | 2                         | 3.76          |        |      |      |      |     |      |     |      |      |                                                                                    |                                                                                                                                      | GW measured from ground level (flush cover).<br>Strong sulphurous odour.<br>Black staining on bailer string. Black silty water.<br>Groundwater sample taken from base using low-flow |     |                                                |   |
| BH2488 |          | 2.06                      | 3.06          | 1005   | 0    | 0    | 89.3 | 9.9 | 0.4  | >   | 1    | 0    | 0                                                                                  | GW measured from ground level (flush cover).<br>Strong sulphurous odour.<br>Borehole measured for 7 minutes due to elevated methane. |                                                                                                                                                                                      |     |                                                |   |
| 89.5   |          |                           |               |        |      |      | 10.2 | 0.1 | >    | 2   | 1    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| 89.6   |          |                           |               |        |      |      | 10.3 | 0   | >    | 0   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| 89.6   |          |                           |               |        |      |      | 10.3 | 0   | >    | 0   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| 89.6   | 10.3     |                           |               |        |      |      | 0    | >   | 0    | 0   |      |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| WS07   | 2.04     | 3.61                      | 1005          | 0      | 0    | 14.3 | 16.4 | 0.5 | >    | 0   | 0    | 1.1  | GW measured from ground level (top hat 0.43m).<br>Borehole sampled from 1.21m bgl. |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      | 14.6 | 17   | 0   | >    | 1   | 1    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      | 14.8 | 17.2 | 0   | >    | 2   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      | 14.8 | 17.3 | 0   | >    | 1   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      | 14.6 | 17.4 | 0   | >    | 1   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| WS06   | 15:00:00 | 2.26                      | Bailer in the | 1005   | 0    | 0    | 0    | 1.2 | 20   | 0   | 1    | 0    | 0.3                                                                                | Bailer in the Borehole                                                                                                               |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 0    | 0.9 | 20.4 | 0   | 1    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 0    | 0.7 | 20.5 | 0   | 0    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 0    | 0.6 | 20.5 | 0   | 0    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 0    | 0.5 | 20.5 | 0   | 0    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| BH2514 | 15:30:00 | 3.15                      | 5.2           | 1004   | 0    | 0    | 0    | 0.3 | 20.5 | 0   | 0    | 0    | 0                                                                                  | GW measured from ground level (top hat 0.37m).<br>Groundwater sample taken from base using bailer.                                   |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 54.2 | 6.8 | 0.2  | >   | 0    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 53.7 | 7   | 0    | >   | 0    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 53   | 7   | 0    | >   | 2    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 39.3 | 6.8 | 0    | >   | 0    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| BH2498 | 2.02     | 2.3                       | 1004          | 0      | 0    | 32.8 | 6.8  | 0   | >    | 0   | 0    | 0.2  | GW measured from ground level (top hat 0.45m).                                     |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      | 29.3 | 6.8  | 0   | >    | 0   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      | 7.6  | 5.4  | 0.9 | 0    | 0   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      | 6.2  | 4.7  | 0.8 | 0    | 0   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      | 6    | 4.9  | 0.6 | 0    | 0   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| BH2513 | 15:57:00 | 2.18                      | 9.9           |        |      |      |      |     |      |     |      |      |                                                                                    |                                                                                                                                      | GW measured from ground level (top hat 0.24m).<br>Groundwater sample taken from base using low-flow samplings                                                                        |     |                                                |   |
|        |          |                           |               | BH2496 | 2.23 | 2.8  | 1004 | 0   | 0    | 5.4 | 14.5 | 1.2  | 1                                                                                  | 0                                                                                                                                    |                                                                                                                                                                                      | 0.2 | GW measured from ground level (top hat 0.29m). |   |
|        |          |                           |               |        |      |      |      |     |      | 0   | 5.4  | 14.6 | 0                                                                                  | 0                                                                                                                                    |                                                                                                                                                                                      |     |                                                | 0 |
|        |          |                           |               |        |      |      |      |     |      | 0   | 5.4  | 14.6 | 0                                                                                  | 0                                                                                                                                    |                                                                                                                                                                                      |     |                                                | 0 |
|        |          |                           |               |        |      |      |      |     |      | 0   | 5.4  | 14.6 | 0                                                                                  | 0                                                                                                                                    |                                                                                                                                                                                      |     |                                                | 0 |
| 0      | 5.4      | 14.6                      | 0             |        |      |      |      |     |      | 0   | 0    |      |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| BH2506 | 16:20:00 | Flooded to top below bung | 1.2           | 1003   | 0    | 0    | 0    | 1.6 | 16.6 | 0   | 1    | 0    | 0                                                                                  | GW measured from ground level (flush cover).                                                                                         |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 0    | 1.6 | 16.8 | 0   | 1    | 1    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 0    | 1.7 | 16.9 | 0   | 2    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 0    | 1.8 | 17.3 | 0   | 0    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
|        |          |                           |               |        |      |      | 0    | 1.8 | 17.5 | 0   | 0    | 0    |                                                                                    |                                                                                                                                      |                                                                                                                                                                                      |     |                                                |   |
| BH2520 | 1.5      | 4.15                      |               |        |      |      |      |     |      |     |      |      |                                                                                    | GW measured from ground level (flush cover).<br>Groundwater sample taken from base using low-flow sampling.                          |                                                                                                                                                                                      |     |                                                |   |

| GAS MONITORING FIELD DATA |          |                                                                                              |             |                        |                  |                |                  |              |           |                        |           |           |          |         |                                                                                                                                                          |
|---------------------------|----------|----------------------------------------------------------------------------------------------|-------------|------------------------|------------------|----------------|------------------|--------------|-----------|------------------------|-----------|-----------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project:                  |          | 1620016166-003                                                                               |             |                        |                  |                |                  | Site:        |           | Manor Farm             |           |           |          |         |                                                                                                                                                          |
| Monitored by:             |          | PJ                                                                                           |             |                        |                  |                |                  | Date & Time: |           | 08/10/2024             |           |           |          |         |                                                                                                                                                          |
| Equipment:                |          | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser s/n 10244. |             |                        |                  |                |                  | Weather:     |           | Windy, cloudy, showers |           |           |          |         |                                                                                                                                                          |
| Atmospheric Pressure:     |          | 990                                                                                          |             |                        |                  |                |                  |              |           |                        |           |           |          |         |                                                                                                                                                          |
| Location                  | Time     | DTW (m bgl)                                                                                  | DTB (m bgl) | Time From Start (Secs) | Baro Pressure mb | Peak Flow l/hr | Steady Flow l/hr | CH4 % v/v    | CO2 % v/v | O2 % v/v               | LEL % v/v | H2S % v/v | CO % v/v | PID ppm | Notes                                                                                                                                                    |
| Comments                  |          |                                                                                              |             |                        |                  |                |                  |              |           |                        |           |           |          |         |                                                                                                                                                          |
| BH2526                    |          | 1.43                                                                                         | 3.73        |                        |                  |                |                  |              |           |                        |           |           |          |         | GW measured from ground level (flush cover). Sulphurous odour. Groundwater sample taken from 2.50m depth using low-flow (sampled on 10th October)        |
| BH2488                    | 11:00:00 | 1.3                                                                                          | 3.05        | 30                     | 990              | 0.5            | 0                | 61.2         | 3.9       | 0.3                    | >         | 16        | 1        | 0.5     | GW measured from ground level (flush cover). Sulphurous odour. Borehole measured for 9 minutes due to elevated methane/H2S, PID measured on 10th October |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 61.8         | 4.0       | 0.1                    | >         | 22        | 0        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 62.6         | 4.0       | 0                      | >         | 27        | 0        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 62.7         | 4.0       | 0                      | >         | 29        | 0        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 360                    |                  |                |                  | 63           | 4         | 0                      | >         | 35        | 0        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 420                    |                  |                |                  | 63.2         | 4.1       | 0                      | >         | 33        | 0        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 540                    |                  |                |                  | 63.7         | 4.1       | 0                      | >         | 33        | 0        |         |                                                                                                                                                          |
| BH2527                    |          | 0.07                                                                                         | 2.7         |                        |                  |                |                  |              |           |                        |           |           |          |         | GW measured from ground level (flush cover). Groundwater sample taken from base using low-flow sampling                                                  |
| BH2484                    | 10:00:00 | to top bel                                                                                   | 3.7         | 30                     |                  |                |                  |              |           |                        |           |           |          |         | Gas monitoring was not possible as water was above bung and the standpipe was flooded                                                                    |
|                           |          |                                                                                              |             | 60                     |                  |                |                  |              |           |                        |           |           |          |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 120                    |                  |                |                  |              |           |                        |           |           |          |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 180                    |                  |                |                  |              |           |                        |           |           |          |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 360                    |                  |                |                  |              |           |                        |           |           |          |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 420                    |                  |                |                  |              |           |                        |           |           |          |         |                                                                                                                                                          |
| BH2513                    |          | 1.77                                                                                         | 4.64        |                        |                  |                |                  |              |           |                        |           |           |          |         | GW measured from ground level (top hat 0.24m). Groundwater sample taken from base using low-flow samplings                                               |
| BH2496                    | 13:00:00 | 1.92                                                                                         | 2.8         | 30                     | 990              | 0              | 0                | 0.4          | 4.4       | 10.3                   | 9.4       | 2         | 2        | -       | GW measured from ground level (top hat 0.29m).                                                                                                           |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 0.2          | 4.4       | 10.4                   | 5.4       | 0         | 1        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 0            | 4.4       | 10.4                   | 0         | 0         | 1        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 0            | 4.4       | 10.4                   | 0         | 0         | 1        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 360                    |                  |                |                  | 0            | 4.4       | 10.2                   | 0         | 0         | 0        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 420                    |                  |                |                  | 0            | 4.3       | 10                     | 0         | 0         | 0        |         |                                                                                                                                                          |
| BH2517                    |          | 3.3                                                                                          | 6.5         |                        |                  |                |                  |              |           |                        |           |           |          |         | GW measured from ground level (flush cover). Groundwater sample taken from base using bailer, 20l purged prior to sampling                               |
| BH2495                    | 13:30:00 | 2.91                                                                                         | 3.02        | 30                     | 989              | 0              | 0                | 68.2         | 4.7       | 0.3                    | >         | 1         | 0        | -       | GW measured from ground level (flush cover). Sulphurous odour. Borehole measured for 9 minutes due to elevated methane and H2S.                          |
|                           |          |                                                                                              |             | 60                     |                  |                |                  | 68.9         | 4.7       | 0.1                    | >         | 2         | 1        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 120                    |                  |                |                  | 69.9         | 4.8       | 0                      | >         | 4         | 1        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 180                    |                  |                |                  | 69.9         | 4.8       | 0                      | >         | 5         | 2        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 360                    |                  |                |                  | 69.7         | 4.8       | 0                      | >         | 11        | 0        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 420                    |                  |                |                  | 69           | 4.9       | 0                      | >         | 21        | 1        |         |                                                                                                                                                          |
|                           |          |                                                                                              |             | 540                    |                  |                |                  | 68.4         | 4.9       | 0                      | >         | 37        | 2        |         |                                                                                                                                                          |

|                       |                                                                                       |                           |      |      |      |     |     |              |      |                |      |   |   |     |                                                                                                       |   |
|-----------------------|---------------------------------------------------------------------------------------|---------------------------|------|------|------|-----|-----|--------------|------|----------------|------|---|---|-----|-------------------------------------------------------------------------------------------------------|---|
| Monitored by:         | PJ                                                                                    |                           |      |      |      |     |     | Date & Time: |      | 09/10/2024     |      |   |   |     |                                                                                                       |   |
| Equipment:            | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser s/n |                           |      |      |      |     |     | Weather:     |      | Windy, cloudy, |      |   |   |     |                                                                                                       |   |
| Atmospheric Pressure: | 1005                                                                                  |                           |      |      |      |     |     |              |      |                |      |   |   |     |                                                                                                       |   |
| BH2514                | 10:00:00                                                                              | 2.55                      | 4.7  |      |      |     |     |              |      |                |      |   |   | 1   | GW measured from ground level (top hat 0.45m).<br>Groundwater sample taken from 3.60m using low flow. |   |
| BH2498                |                                                                                       |                           |      | 2.06 | 2.33 | 983 | 0   | 0            | 13.7 | 6.9            | 3.2  | > | 0 |     |                                                                                                       | 1 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 13.6 | 6.9            | 3.2  | > | 0 |     |                                                                                                       | 2 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 13.4 | 6.8            | 3.9  | > | 0 |     |                                                                                                       | 1 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 12.9 | 5.7            | 5.9  | > | 0 |     |                                                                                                       | 0 |
| 360                   | 11.7                                                                                  | 4.7                       | 8.5  | >    | 0    | 0   |     |              |      |                |      |   |   |     |                                                                                                       |   |
| 420                   | 7.7                                                                                   | 3.3                       | 12.3 | >    | 0    | 0   | 0   |              |      |                |      |   |   |     |                                                                                                       |   |
| BH2516                | 11:30:00                                                                              | 1.65                      | 4.27 |      |      |     |     |              |      |                |      |   |   | 0.2 | GW measured from ground level (top hat 0.37m)<br>Groundwater sample taken from 2.90m using low flow.  |   |
| BH2501                |                                                                                       |                           |      | 1.05 | 1.88 | 983 | 0.2 | 0            | 0    | 6.4            | 10.1 | 0 | 1 |     |                                                                                                       | 0 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 0    | 6.5            | 9.9  | 0 | 0 |     |                                                                                                       | 0 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 0    | 6.6            | 9.8  | 0 | 0 |     |                                                                                                       | 0 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 0    | 6.5            | 9.7  | 0 | 0 |     |                                                                                                       | 0 |
| 360                   | 0                                                                                     | 6.5                       | 9.6  | 0    | 0    | 0   |     |              |      |                |      |   |   |     |                                                                                                       |   |
| 420                   | 0                                                                                     | 6.5                       | 9.6  | 0    | 0    | 0   | 0   |              |      |                |      |   |   |     |                                                                                                       |   |
| BH2506                | 13:30:00                                                                              | Flooded to top below bung | 1.2  |      |      |     |     |              |      |                |      |   |   | 0   | Gas monitoring was not possible as water got into the gas pipe as soon as started monitoring          |   |
| BH2520                |                                                                                       | 1.26                      | 5.06 |      |      |     |     |              |      |                |      |   |   |     |                                                                                                       |   |
| BH2518                | 15:00:00                                                                              | 0.34                      | 2.83 |      |      |     |     |              |      |                |      |   |   | 0   | GW measured from ground level (top hat 0.38m).<br>Borehole sampled from 1.50m using low flow sampling |   |
| BH2499                |                                                                                       |                           |      | 0.43 | 1.34 | 983 | 0   | 0            | 1    | 0.6            | 15.8 | 0 | 0 |     |                                                                                                       | 0 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 0.6  | 0.5            | 18.9 | 0 | 0 |     |                                                                                                       | 0 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 0.2  | 0.3            | 20.2 | 0 | 0 |     |                                                                                                       | 0 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 0    | 0              | 20.6 | 0 | 0 |     |                                                                                                       | 0 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 0    | 0              | 20.8 | 0 | 0 |     |                                                                                                       | 0 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 0    | 0              | 20.8 | 0 | 0 |     |                                                                                                       | 0 |
| Monitored by:         | PJ                                                                                    |                           |      |      |      |     |     | Date & Time: |      | 10/10/2024     |      |   |   |     |                                                                                                       |   |
| Equipment:            | Geotech Interface Dip Meter, Ion Science Tiger s/n T-105779, GFM 430 Gas Analyser s/n |                           |      |      |      |     |     | Weather:     |      | Windy, cloudy, |      |   |   |     |                                                                                                       |   |
| Atmospheric Pressure: | 1005                                                                                  |                           |      |      |      |     |     |              |      |                |      |   |   |     |                                                                                                       |   |
| BH2522                | 10:30:00                                                                              | 1.85                      | 5.01 |      |      |     |     |              |      |                |      |   |   | 1   | GW measured from ground level (top hat 0.30m).<br>Groundwater sample taken from 3.40m using low-flow. |   |
| BH2497                |                                                                                       |                           |      | 0.1  | 2.19 | 983 | 0   | 0            | 30   | 6.9            | 3.2  | > | 0 |     |                                                                                                       | 1 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 60   | 6.9            | 3.2  | > | 0 |     |                                                                                                       | 2 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 120  | 6.8            | 3.9  | > | 0 |     |                                                                                                       | 1 |
|                       |                                                                                       |                           |      |      |      |     |     |              | 180  | 5.7            | 5.9  | > | 0 |     |                                                                                                       | 0 |
| 360                   | 11.7                                                                                  | 4.7                       | 8.5  | >    | 0    | 0   |     |              |      |                |      |   |   |     |                                                                                                       |   |
| 420                   | 7.7                                                                                   | 3.3                       | 12.3 | >    | 0    | 0   | 0   |              |      |                |      |   |   |     |                                                                                                       |   |

| GAS MONITORING FIELD DATA |                                                                                              |             |             |                        |                  |           |              |              |          |           |         | RAMBOLL                                                                                                                               |  |
|---------------------------|----------------------------------------------------------------------------------------------|-------------|-------------|------------------------|------------------|-----------|--------------|--------------|----------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Project:                  | 1620016166                                                                                   |             |             |                        |                  |           | Site:        | Manor Farm   |          |           |         |                                                                                                                                       |  |
| Monitored by:             | EB/SD                                                                                        |             |             |                        |                  |           | Date & Time: | 25/09/2023   |          |           |         |                                                                                                                                       |  |
| Equipment:                | Geotech Interface Dip Meter, Ion Science Tiger s/n T-106116, GFM 430 Gas Analyser s/n 10244. |             |             |                        |                  |           | Weather:     | Sunny, 22 DC |          |           |         |                                                                                                                                       |  |
| Atmospheric Pressure:     | 1014 mb                                                                                      |             |             |                        |                  |           |              |              |          |           |         |                                                                                                                                       |  |
| Location                  | Time                                                                                         | DTW (m bgl) | DTB (m bgl) | Time From Start (Secs) | Baro Pressure mb | Flow l/hr | CH4 % v/v    | CO2 % v/v    | O2 % v/v | LEL % v/v | PID ppm | Notes                                                                                                                                 |  |
|                           |                                                                                              |             |             |                        |                  |           |              |              |          |           |         |                                                                                                                                       |  |
| BH2499                    |                                                                                              | 0.83        | 2.83        | 10                     | 1014             | 0.2       | 0            | 0.9          | 20.5     | 0         | 0       | GW level taken from ground level (top hat measured as 0.37m).<br>Silty base.                                                          |  |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 0.9          | 19.5     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 0.9          | 19.5     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 0.9          | 19.4     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 0.9          | 19.4     | 0         |         |                                                                                                                                       |  |
| BH2518                    | 09:11:00                                                                                     | 0.83        | 1.19        |                        |                  |           |              |              |          |           | 0       | Organic odour and cloudy water.<br>GW level taken from ground level (top hat measured as 0.37m).<br>PID reading taken from headworks. |  |
| BH2506                    | 09:46:00                                                                                     | 0.4         | 1.2         | 10                     | 1015             | 0.1       | 0            | 1.1          | 17.2     | 0         | 0.1     | Dark brown very silty water, slight organic odour.<br>Flush cover.<br>Purged 4 litres of groundwater.                                 |  |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 0.9          | 17.7     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 0.6          | 18.8     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 0.6          | 18.9     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 0.7          | 18.9     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 300                    |                  |           | 0            | 0.6          | 18.9     | 0         |         |                                                                                                                                       |  |
| BH2520                    |                                                                                              | 2.05        | 5.18        |                        |                  |           |              |              |          |           | 0.5     | Black residue on pipework, slight organic odour,<br>dark brown very silty water.<br>Flush cover.                                      |  |
| WS15                      | 12:02:00                                                                                     | 2.06        | 2.8         | 10                     | 1016             | 0         | 0            | 7.4          | 17.5     | 0         | 0.6     | GW level taken from ground level (top hat 0.4m).<br>Very silty base.<br>Gas monitored for 5 minues due to elevated CO2.               |  |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 8.2          | 11.7     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 8.4          | 11.4     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 8.6          | 11.4     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 8.6          | 11.4     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 300                    |                  |           | 0            | 8.6          | 11.4     | 0         |         |                                                                                                                                       |  |
| BH2496                    | 12:10                                                                                        | 2.19        | 2.52        | 10                     | 1015             | 0         | 0            | 10.3         | 8.7      | 0         | 0       | GW level taken from ground level (top hat 0.3m).<br>Silty base.<br>Gas monitored for 5 minues due to elevated CO2.                    |  |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 10.6         | 8.2      | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 10.9         | 8        | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 11           | 8        | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 11.1         | 8.1      | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 300                    |                  |           | 0            | 11.1         | 8.1      | 0         |         |                                                                                                                                       |  |
| BH2513                    |                                                                                              | 2.18        | 4.72        |                        |                  |           |              |              |          |           | 0       | GW level taken from ground level (top hat 0.25m)<br>Very silty base.                                                                  |  |
| WS16                      | 12:30                                                                                        | 2.34        | 3.86        | 10                     | 1014             | 0         | 0            | 2.3          | 18       | 0         | 0.3     | GW level taken from ground level (top hat 0.32m)<br>Dark brown very silty groundwater.<br>Purged 9 litres.                            |  |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 2.3          | 18       | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 2.3          | 18       | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 2.3          | 18       | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 2.3          | 18       | 0         |         |                                                                                                                                       |  |
| WS17                      | 12:50:00                                                                                     | 2.92        | 3.8         | 10                     | 1014             | 0         | 0            | 3.4          | 18       | 0         | 0.1     | GW level taken from ground level (top hat 0.42m)                                                                                      |  |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 3.5          | 16.9     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 3.5          | 16.8     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 3.6          | 16.8     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 3.6          | 16.8     | 0         |         |                                                                                                                                       |  |
| WS18                      | 13:20:00                                                                                     | 2.69        | 3.92        | 10                     | 1015             | 0         | 0            | 3.6          | 17.6     | 0         | 0.1     | GW level taken from ground level (top hat 0.4m).<br>Very silty and sandy base.                                                        |  |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 3.7          | 17.5     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 3.7          | 17.5     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 3.7          | 17.5     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 3.7          | 17.5     | 0         |         |                                                                                                                                       |  |
| WS19                      | 13:25:00                                                                                     | 2.64        | 3.85        | 10                     | 1014             | 0         | 0            | 5.9          | 11.8     | 0         | 0       | GW level taken from ground level (top hat 0.4m).<br>Gas monitored for 5 minues due to elevated CO2.<br>Purged 3 litres - ran dry.     |  |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 6            | 11.7     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 6.1          | 11.8     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 6.1          | 11.5     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 6.2          | 11.5     | 0         |         |                                                                                                                                       |  |
|                           |                                                                                              |             |             | 300                    |                  |           | 0            | 6.3          | 11.3     | 0         |         |                                                                                                                                       |  |

|      |          |      |      |     |      |   |      |      |      |   |     |                                                                                                                                 |
|------|----------|------|------|-----|------|---|------|------|------|---|-----|---------------------------------------------------------------------------------------------------------------------------------|
| WS20 | 13:35:00 | Dry  | 1.68 | 10  | 1014 | 0 | 0    | 3.7  | 19   | 0 | 0.2 | GW level taken from ground level (top hat 0.36m).<br>Gas monitored for 10 minutes due to elevated CO2.                          |
|      |          |      |      | 30  |      |   | 0    | 4    | 16.3 | 0 |     |                                                                                                                                 |
|      |          |      |      | 60  |      |   | 0    | 4.1  | 16.2 | 0 |     |                                                                                                                                 |
|      |          |      |      | 120 |      |   | 0    | 4.2  | 16   | 0 |     |                                                                                                                                 |
|      |          |      |      | 180 |      |   | 0    | 4.4  | 15.7 | 0 |     |                                                                                                                                 |
|      |          |      |      | 300 |      |   | 0    | 4.9  | 14.8 | 0 |     |                                                                                                                                 |
|      |          |      |      | 600 |      |   | 0    | 6.3  | 13.6 | 0 |     |                                                                                                                                 |
| WS13 | 14:03:00 | 2    | 4    | 10  | 1014 | 0 | 64   | 9.7  | 4    | > | 0.6 | Leachate odour.<br>Gas monitored for 10 minutes due to elevated CH4<br>and CO2.<br>Flush Cover.                                 |
|      |          |      |      | 30  |      |   | 64.1 | 9.9  | 0.1  | > |     |                                                                                                                                 |
|      |          |      |      | 60  |      |   | 64.6 | 10.2 | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 120 |      |   | 64.1 | 10.5 | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 180 |      |   | 65.1 | 10.4 | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 300 |      |   | 65.7 | 10   | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 600 |      |   | 65.3 | 10.4 | 0    | > |     |                                                                                                                                 |
| WS12 | 14:21:00 | 2.86 | 3.04 | 10  | 1015 | 0 | 7.3  | 3.5  | 9    | > | 0.2 | Flush cover.                                                                                                                    |
|      |          |      |      | 30  |      |   | 2.1  | 3.1  | 15.5 | > |     |                                                                                                                                 |
|      |          |      |      | 60  |      |   | 2.7  | 3.4  | 14.9 | > |     |                                                                                                                                 |
|      |          |      |      | 120 |      |   | 3.1  | 4.7  | 12.6 | > |     |                                                                                                                                 |
|      |          |      |      | 180 |      |   | 5.7  | 7.1  | 9.5  | > |     |                                                                                                                                 |
|      |          |      |      | 300 |      |   | 8.7  | 11.5 | 3.2  | > |     |                                                                                                                                 |
|      |          |      |      | 600 |      |   | 11.2 | 12   | 2.6  | > |     |                                                                                                                                 |
| WS11 | 14:42:00 | 1.87 | 1.96 | 10  | 1014 | 0 | 59.6 | 18.9 | 6.7  | > | 0.1 | Flush cover.                                                                                                                    |
|      |          |      |      | 30  |      |   | 65.2 | 19.1 | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 60  |      |   | 66.6 | 19.3 | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 120 |      |   | 67.7 | 19.4 | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 180 |      |   | 68.3 | 19.4 | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 300 |      |   | 68.7 | 19.4 | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 600 |      |   | 68.5 | 19.4 | 0    | > |     |                                                                                                                                 |
| WS10 | 14:58:00 | 2.46 | 2.48 | 10  | 1014 | 0 | 0    | 2.4  | 19   | 0 | 0.3 | GW level taken from ground level (top hat 0.32m).<br>Very silty base.                                                           |
|      |          |      |      | 30  |      |   | 0    | 2.4  | 17.6 | 0 |     |                                                                                                                                 |
|      |          |      |      | 60  |      |   | 0    | 2.4  | 17.5 | 0 |     |                                                                                                                                 |
|      |          |      |      | 120 |      |   | 0    | 2.4  | 17.4 | 0 |     |                                                                                                                                 |
|      |          |      |      | 180 |      |   | 0    | 2.4  | 17.3 | 0 |     |                                                                                                                                 |
|      |          |      |      |     |      |   |      |      |      |   |     |                                                                                                                                 |
|      |          |      |      |     |      |   |      |      |      |   |     |                                                                                                                                 |
| WS06 | 15:10:00 | 2.2  | 3.04 | 10  | 1014 | 0 | 45.3 | 22.5 | 3.1  | > | 0.1 | GW level taken from ground level (top hat 0.4m).<br>Strong organic odour.                                                       |
|      |          |      |      | 30  |      |   | 49.8 | 23.1 | 0.7  | > |     |                                                                                                                                 |
|      |          |      |      | 60  |      |   | 51   | 23.5 | 0.4  | > |     |                                                                                                                                 |
|      |          |      |      | 120 |      |   | 52.2 | 23.7 | 0.2  | > |     |                                                                                                                                 |
|      |          |      |      | 180 |      |   | 52.4 | 23.8 | 0.1  | > |     |                                                                                                                                 |
|      |          |      |      | 300 |      |   | 54.6 | 24   | 0    | > |     |                                                                                                                                 |
|      |          |      |      | 600 |      |   | 55.1 | 24.2 | 0    | > |     |                                                                                                                                 |
| WS08 | 15:30:00 | 2.68 | 4    | 10  | 1014 | 0 | 0    | 6.8  | 11.1 | 0 | 0.1 | GW level taken from ground level (top hat 0.42m).<br>Dark brown silty groundwater.<br>Strong organic odour.<br>Purged 5 litres. |
|      |          |      |      | 30  |      |   | 0    | 6.8  | 10.9 | 0 |     |                                                                                                                                 |
|      |          |      |      | 60  |      |   | 0    | 6.9  | 10.9 | 0 |     |                                                                                                                                 |
|      |          |      |      | 120 |      |   | 0    | 6.9  | 10.7 | 0 |     |                                                                                                                                 |
|      |          |      |      | 180 |      |   | 0    | 7    | 10.5 | 0 |     |                                                                                                                                 |
|      |          |      |      | 300 |      |   | 0    | 7.2  | 10.3 | 0 |     |                                                                                                                                 |
|      |          |      |      | 600 |      |   | 0    | 8.2  | 8.8  | 0 |     |                                                                                                                                 |
| WS07 | 15:45:00 | 2.73 | 4.04 | 10  | 1014 | 0 | 0    | 7.8  | 7.8  | 0 | 0.1 | GW level taken from ground level (top hat 0.40m).<br>Dark brown silty groundwater.                                              |
|      |          |      |      | 30  |      |   | 0    | 8    | 8    | 0 |     |                                                                                                                                 |
|      |          |      |      | 60  |      |   | 0    | 8.1  | 8.1  | 0 |     |                                                                                                                                 |
|      |          |      |      | 120 |      |   | 0    | 8.2  | 8.2  | 0 |     |                                                                                                                                 |
|      |          |      |      | 180 |      |   | 0    | 8.3  | 8.3  | 0 |     |                                                                                                                                 |
|      |          |      |      | 300 |      |   | 0    | 8.5  | 8.5  | 0 |     |                                                                                                                                 |
|      |          |      |      | 600 |      |   | 0    | 9.7  | 8.6  | 0 |     |                                                                                                                                 |

| GAS MONITORING FIELD DATA |                                                                                              |             |             |                        |                  |           |              |           |                     |           |         |                                                                                             | RAMBOLL |
|---------------------------|----------------------------------------------------------------------------------------------|-------------|-------------|------------------------|------------------|-----------|--------------|-----------|---------------------|-----------|---------|---------------------------------------------------------------------------------------------|---------|
| Project:                  | 1620016166                                                                                   |             |             |                        |                  |           | Site:        |           | Manor Farm          |           |         |                                                                                             |         |
| Monitored by:             | EB/SD                                                                                        |             |             |                        |                  |           | Date & Time: |           | 27/09/2023          |           |         |                                                                                             |         |
| Equipment:                | Geotech Interface Dip Meter, Ion Science Tiger s/n T-106116, GFM 430 Gas Analyser s/n 10244. |             |             |                        |                  |           | Weather:     |           | Sunny, windy, 20 DC |           |         |                                                                                             |         |
| Atmospheric Pressure:     | 1014 mb                                                                                      |             |             |                        |                  |           |              |           |                     |           |         |                                                                                             |         |
| Location                  | Time                                                                                         | DTW (m bgl) | DTB (m bgl) | Time From Start (Secs) | Baro Pressure mb | Flow l/hr | CH4 % v/v    | CO2 % v/v | O2 % v/v            | LEL % v/v | PID ppm | Notes<br>Comments                                                                           |         |
| WS04                      | 08:51:00                                                                                     | Dry         | 2           | 10                     | 1012             | 0.1       | 0            | 8.5       | 16.6                | 0         | 0.1     | Flush cover.<br>Very silty base.                                                            |         |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 9.3       | 10.2                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 9.5       | 9.9                 | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 9.6       | 9.8                 | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 9.6       | 9.8                 | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             |                        |                  |           |              |           |                     |           |         |                                                                                             |         |
| WS05                      | 09:03:00                                                                                     | Dry         | 3.75        | 10                     | 1012             | 0.1       | 12.4         | 9.8       | 16.7                | >         | 0.1     | Flush cover.<br>Strong hydrocarbon/ leachate odour.                                         |         |
|                           |                                                                                              |             |             | 30                     |                  |           | 15.8         | 13        | 5.9                 | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 60                     |                  |           | 16.5         | 13.4      | 5.1                 | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 120                    |                  |           | 17.7         | 14        | 4.1                 | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 180                    |                  |           | 19.5         | 14.5      | 3                   | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 300                    |                  |           | 20.6         | 16        | 1.4                 | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 600                    |                  |           | 20.6         | 17.2      | 0                   | >         |         |                                                                                             |         |
| WS09                      | 09:25:00                                                                                     | 2.71        | 2.8         | 10                     | 1012             | 0         | 1.4          | 5.6       | 15.2                | 0.9       | 0.3     | GW level taken from ground level (top hat 0.35m).                                           |         |
|                           |                                                                                              |             |             | 30                     |                  |           | 0.2          | 6.7       | 11.5                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 6.7       | 11.4                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 6.7       | 11.3                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 6.7       | 11.2                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             |                        |                  |           |              |           |                     |           |         |                                                                                             |         |
| WS14                      | 09:55:00                                                                                     | 3.86        | 3.96        | 10                     | 1012             | 0.2       | 40.8         | 18.3      | 8.6                 | >         | 0.6     | GW level taken from ground level (top hat 0.37m).<br>Very strong leachate odour.            |         |
|                           |                                                                                              |             |             | 30                     |                  |           | 45.8         | 20.2      | 0.1                 | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 60                     |                  |           | 47.2         | 20.6      | 0                   | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 120                    |                  |           | 48.2         | 20.6      | 0                   | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 180                    |                  |           | 48.6         | 20.6      | 0                   | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 300                    |                  |           | 48.7         | 20.7      | 0                   | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 600                    |                  |           | 48.5         | 20.7      | 0                   | >         |         |                                                                                             |         |
| BH2486                    | 10:25:00                                                                                     | 1.77        | 1.86        | 10                     | 1012             | 0         | 0            | 4.4       | 15.3                | 0         | 0       | Flush cover.<br>Strong hydrocarbon/ leachate odour.                                         |         |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 4.5       | 15.3                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 4.5       | 15.3                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 4.5       | 15.3                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 180                    |                  |           | 0            | 4.5       | 15.4                | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             |                        |                  |           |              |           |                     |           |         |                                                                                             |         |
| BH2524                    |                                                                                              | 2.13        | 5.96        |                        |                  |           |              |           |                     |           | 0       | Flush cover.<br>Black silty water and base, strong leachate odour, segregated water column. |         |
| BH2488                    | 11:41:00                                                                                     | 2.11        | 3.09        | 10                     | 1010             | 0         | 58.6         | 12.6      | 5.6                 | >         | 0.7     | Flush cover.<br>Chemical odour, dark grey silty water and base.                             |         |
|                           |                                                                                              |             |             | 30                     |                  |           | 77.2         | 12.2      | 0.1                 | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 60                     |                  |           | 77.9         | 12.5      | 0                   | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 120                    |                  |           | 78.5         | 12.6      | 0                   | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 300                    |                  |           | 79.1         | 12.6      | 0                   | >         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 600                    |                  |           | 88.4         | 12.5      | 0                   | >         |         |                                                                                             |         |
| BH2526                    |                                                                                              | 2.11        | 3.75        |                        |                  |           |              |           |                     |           | 0.5     | Flush cover.<br>Chemical odour, dark grey silty water and base.                             |         |
| BH2484                    | 12:10:00                                                                                     | 0.98        | 3.74        | 10                     | 1010             | 0         | 0            | 3.1       | 7.9                 | 0         | 0       | Flush cover.<br>Strong egg odour, dark grey silty water.                                    |         |
|                           |                                                                                              |             |             | 30                     |                  |           | 0            | 3.3       | 7.2                 | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 60                     |                  |           | 0            | 3.4       | 7                   | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 120                    |                  |           | 0            | 3.4       | 6.9                 | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 300                    |                  |           | 0            | 3.4       | 6.9                 | 0         |         |                                                                                             |         |
|                           |                                                                                              |             |             | 600                    |                  |           | 0            | 3.4       | 6.9                 | 0         |         |                                                                                             |         |
| BH2527                    |                                                                                              | 1           | 3.65        |                        |                  |           |              |           |                     |           | 0       | Flush cover.<br>Strong egg odour, dark grey silty water and base.                           |         |



|        |          |      |      |     |      |   |      |      |      |      |     |                                                                                                                                                                |
|--------|----------|------|------|-----|------|---|------|------|------|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BH2495 | 12:41:00 | 2.99 | 3    | 10  | 1009 | 0 | 53.3 | 4.3  | 4.7  | >    | 3.2 | Flush cover.<br>Hydrocarbon/iron sheen on the top of water in the headworks. Strong egg odour. Dark grey silty water and base.                                 |
|        |          |      |      | 30  |      |   | 68.1 | 4.4  | 0.1  | >    |     |                                                                                                                                                                |
|        |          |      |      | 60  |      |   | 69   | 4.5  | 0    | >    |     |                                                                                                                                                                |
|        |          |      |      | 120 |      |   | 70.1 | 4.6  | 0    | >    |     |                                                                                                                                                                |
|        |          |      |      | 180 |      |   | 70.6 | 4.5  | 0    | >    |     |                                                                                                                                                                |
|        |          |      |      | 300 |      |   | 71.2 | 4.5  | 0    | >    |     |                                                                                                                                                                |
|        |          |      |      | 600 |      |   | 72.2 | 4.5  | 0    | >    |     |                                                                                                                                                                |
| BH2517 |          | 3.73 | 6.52 |     |      |   |      |      |      |      | 2.2 | Flush cover.<br>Hydrocarbon/iron sheen on the top of water in the headworks. Strong egg odour. Dark grey silty water and base. Purged 16.5 litres.             |
| BH2498 | 13:18:00 | 2.78 | 2.78 | 10  | 1007 | 0 | 3.2  | 5.6  | 13.4 | 75.6 | 0.5 | GW level taken from ground level (top hat 0.43m).<br>Strong egg odour, suspended black solids in groundwater, dark grey silty base.                            |
|        |          |      |      | 30  |      |   | 3.4  | 6.2  | 6.7  | 78.2 |     |                                                                                                                                                                |
|        |          |      |      | 60  |      |   | 3.6  | 5.4  | 8    | 83.8 |     |                                                                                                                                                                |
|        |          |      |      | 120 |      |   | 4.2  | 4.3  | 10.5 | 97.9 |     |                                                                                                                                                                |
|        |          |      |      | 180 |      |   | 4.6  | 4.1  | 11.5 | >    |     |                                                                                                                                                                |
|        |          |      |      | 300 |      |   | 7.4  | 3.7  | 12.5 | >    |     |                                                                                                                                                                |
|        |          |      |      | 600 |      |   | 7.9  | 3.1  | 13.4 | >    |     |                                                                                                                                                                |
| BH2514 |          | 3.13 | 4.9  |     |      |   |      |      |      |      | 0   | GW level taken from ground level (top hat 0.3m).<br>Strong egg odour, suspended black solids in groundwater, dark grey silty base.                             |
| BH2497 | 14:08:00 | 1.84 | 1.86 | 10  | 1007 | 0 | 37.6 | 19.7 | 12.3 | >    | 1   | GW level taken from ground level (top hat 0.3m).                                                                                                               |
|        |          |      |      | 30  |      |   | 44.5 | 20.8 | 1.3  | >    |     |                                                                                                                                                                |
|        |          |      |      | 60  |      |   | 44.4 | 21.3 | 1.1  | >    |     |                                                                                                                                                                |
|        |          |      |      | 120 |      |   | 43   | 21.2 | 1.1  | >    |     |                                                                                                                                                                |
|        |          |      |      | 180 |      |   | 41.4 | 20.9 | 1    | >    |     |                                                                                                                                                                |
|        |          |      |      | 300 |      |   | 40.9 | 21.1 | 0.6  | >    |     |                                                                                                                                                                |
|        |          |      |      | 600 |      |   | 42.9 | 21.6 | 0.1  | >    |     |                                                                                                                                                                |
| BH2522 |          | 2.03 | 4.93 |     |      |   |      |      |      |      | 1.7 | GW level taken from ground level (top hat 0.3m).<br>Dark brown groundwater with black suspended solids. Slight hydrocarbon odour. Black data logger down well. |

## Appendix 8 Annual Monitoring Report

Intended for  
**Manor Farm Propco Limited**

Document type  
**Report**

Date  
**December 2024**

# Annual Monitoring Report

## Manor Farm, Poyle, Slough

## Annual Monitoring Report

### Manor Farm, Poyle, Slough

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## Executive Summary

Ramboll UK Limited (Ramboll) has been instructed by Manor Farm Propco Limited (the “Client”) to prepare an Annual Monitoring Report for an area of land at Manor Farm, Poyle, Slough, SL3 0BL (the “Site”) to assist in the proposed demolition of existing buildings and site re-levelling, erection of a building for use as a data centre, erection of a sub-station, a Battery Energy Storage System (BESS), as well as associated external works and utility infrastructure, site access works, internal circulation routes and landscaping. A Site Location Plan is provided in Figure 1.

Quarterly rounds of ground gas and groundwater monitoring and sampling were undertaken across a select number of boreholes throughout 2024. Sampling of waters across the site was from the perched groundwater within the landfill waste and Made Ground material. In order to characterise the ground gas regime four monitoring rounds were carried out; concentrations of ground gases and ground gas flow rates were monitored using a gas meter (GFM) and concentrations of volatile organic compounds (VOCs) were monitored using a photo-ionisation detector (PID). The depth to resting groundwater levels were recorded during the groundwater monitoring rounds.

Evidence of residual groundwater contamination encountered was consistent with historic use of the south and the north-west of the site as a landfill and the north-east of the site for light industrial/ commercial uses, which also resulted in infilling (as reworked construction and natural materials).

The presence of residual concentrations of contaminants including ammoniacal nitrogen, iron and petroleum hydrocarbons in groundwater is considered to be typical of a site subject to variable filling. Whilst there is contamination present the potential for this to represent a significant risk to wider groundwater or surface waters is considered to be limited. Petroleum hydrocarbon contamination identified locally close to the USTs in the north of the site is also considered to be associated with the presence of the now decommissioned diesel USTs; however, it is understood that below ground fuel infrastructure will be removed as part of the development.

Whilst exceedances of inorganic and organic contaminants were recorded in excess of relevant GAC or EQS protective of groundwater and surface water environments, the presence of low permeability clayey Made Ground/reworked alluvium deposits along the boundary is expected to act as a mitigating factor to off-site migration. Likewise, deposits of low permeability Alluvium in the east of the site are expected to limit lateral migration, which could potentially impact the off-site superficial aquifer. The deeper chalk aquifer is considered to be protected from vertical migration of impacted groundwater due to the presence of the underlying impermeable bedrock.

No observable seasonal trend in the concentrations of contaminants was recorded in samples of groundwater, although exceedances of quality standards were typically recorded in the same locations during all monitoring rounds. However, no significant source-pathway-receptor relationships have been identified.

No exceedances of screening of groundwater samples against the GAC for a commercial/ industrial development were encountered, indicating that a significant groundwater volatilisation source is not present beneath the site.

The difference in elevation between groundwater beneath the site and surface water levels within the adjacent Poyle Channel indicates that the two waterbodies are not in significant hydraulic continuity. In addition, no correspondingly increased concentrations of contaminants have been recorded in surface water samples taken from the Poyle Channel or Colne Brook. This indicates

that contaminated groundwater beneath the site is likely not interacting with nearby surface waters to a significant extent, and therefore a significant potential risk has been identified.

Ramboll's ground gas monitoring data recorded concentrations and flow rates consistent with a Characteristic Situation 2 classification; however, given elevated concentrations of methane and carbon dioxide it is recommended that the site be classified as CS3 (moderate risk) which is typical of old landfill sites.

Identified contamination is considered to be manageable in the context of the proposed low sensitivity commercial use. Furthermore, the proposed development will improve the existing site conditions and remove obvious sources of contamination (e.g. underground storage tanks) during the works. The site is considered suitable for commercial development, however, further investigation to delineate areas of potential contamination and provide ground and groundwater information in areas of data gaps is recommended.

# 1. Introduction

## 1.1 Background

Ramboll UK Ltd (Ramboll) was commissioned by Manor Farm Propco Limited (the Client) to undertake quarterly groundwater and ground gas monitoring at Manor Farm, Poyle, Slough ("the site") in association with the proposed redevelopment of the site as a datacentre and a battery energy storage system (BESS). A Site Location plan is provided in Figure 1.

The site comprises two main areas, which are connected by a strip of land that runs from north to south. The northern section consists of two large areas used for airport car parking with the central and western areas comprising a mix of light industrial and commercial units. A residential building is situated in the east of the site adjacent to the access road leading from Poyle Road. Part of this area was formerly a builder's yard, in which there are two underground diesel storage tanks (USTs). This area is intended to be developed as a datacentre. The central area of the site comprises a narrow strip of land running from north to south. Thames Wire Metalworks, a metal fabricator warehouse with smaller ancillary buildings and areas of car parking and materials storage is located in the north of this strip. This area is intended to be developed as a datacentre strip. This corridor provides access between the two main development areas.

The southern parcel comprises approximately 25% of the site and consists of vacant former agricultural land and some derelict metal sheds with a footpath running from west to east along its northern extent. This area is intended to be developed as a Battery Energy Storage System (BESS). The south and a marginal area in the north-west of the site has historically been subject to widespread gravel extraction and then used as a landfill (1948-1980, licensed from 1974). The majority of the northern portion of the site appears to comprise more re-worked natural deposits and construction wastes and this aligns to the regulatory records of the extent of the landfill. Infilled ground in the south of the site typically contained a mixture of construction wastes as well as plastic, timber and bagged plastic waste. There is no record or evidence of the landfill being provided with engineered controls such as a landfill cap, walls or basal layer and so effectively acts as a 'dilute and disperse' landfill. The landfill extended off to the west and a separate landfill was present to the immediate north of a similar age. A plan showing the location of the boreholes on site is provided in Appendix 1.

## 1.2 Scope of Work

The scope of works was undertaken in line with Ramboll's proposal dated 5<sup>th</sup> February 2024, reference REH2023N00008--RAM-PO-00001.docx. Completed works comprised groundwater sampling across a range of boreholes (nine boreholes within and around the development area and five across the wider landfill site to the west) and three surface water samples; two from up and downstream of the Colne Brook and one upstream from the Poyle Channel. Notable exceptions to the proposed scope of works are:

- Due to consistent ground and surface water flooding of BH2525 this could not be sampled and BH2526 was sampled as an alternative location throughout the monitoring.
- Gas monitoring was undertaken at a later date than the groundwater monitoring during the February monitoring round (15<sup>th</sup> March), due to water damage to the gas meter.
- It was not possible to sample WS16 or WS18 during the July monitoring round due to extensive vegetation growth in the area preventing access.
- Pesticides and herbicides were not detected above the LMDL during the February monitoring round and were generally below the LMDL during subsequent visits. As a result, these were excluded from testing during the later July and October monitoring rounds.



## 2. Summary of Monitoring Works

### 2.1 Groundwater and Ground Gas Monitoring

Quarterly rounds of ground gas and groundwater monitoring were undertaken across a select number of boreholes throughout 2024. These comprised sampling of four on-site boreholes (BH2514, BH2516, BH2518 and BH2520) and three within the immediate vicinity of the development area (BH2513, BH2517 and BH2522) quarterly with an additional seven locations on and off-site (WS06, WS07, WS13, WS16 and WS18 from the wider landfill site to the west, and BH2526 and BH2527 in the south of the site) monitored every six months. Sampling of waters across the site was from the perched groundwater within the landfill waste and Made Ground material; a list of the pairs of HAL boreholes monitored is presented in [Table 2-1](#) below.

In order to characterise the ground gas regime four monitoring rounds were carried out throughout 2024, see the list below:

- Round 1 – 26<sup>th</sup> – 28<sup>th</sup> February (additional gas monitoring undertaken 15<sup>th</sup> March);
- Round 2 – 9<sup>th</sup> – 10<sup>th</sup> April;
- Round 3 – 8<sup>th</sup> – 10<sup>th</sup> July; and,
- Round 4 – 8<sup>th</sup> – 10<sup>th</sup> October.

Concentrations of ground gases and flow rates were monitored using a gas meter (GFM) and concentrations of volatile organic compounds (VOCs) were monitored using a photo-ionisation detector (PID). Depth to resting groundwater levels were recorded using a dip meter; a summary of the groundwater levels and evidence for contamination observed throughout the monitoring period is provided in [Table 2-2](#).

**Table 2-1 – HAL Borehole Installations Monitored**

| HAL Borehole Location                          | Deep Installation (Groundwater) | Shallow Installation (Ground Gas) |
|------------------------------------------------|---------------------------------|-----------------------------------|
| <b>On-Site (Datacentre Development Area)</b>   |                                 |                                   |
| BH2514                                         | X                               |                                   |
| BH2498                                         |                                 | X                                 |
| BH2518                                         | X                               |                                   |
| BH2499                                         |                                 | X                                 |
| BH2520                                         | X                               |                                   |
| BH2506                                         |                                 | X                                 |
| <b>On-Site (Battery Energy Storage System)</b> |                                 |                                   |
| BH2526                                         | X                               |                                   |
| BH2488                                         |                                 | X                                 |
| BH2527                                         | X                               |                                   |
| BH2484                                         |                                 | X                                 |
| <b>Off-Site (within 50m)</b>                   |                                 |                                   |
| BH2513                                         | X                               |                                   |
| BH2496                                         |                                 | X                                 |
| BH2517                                         | X                               |                                   |
| BH2495                                         |                                 | X                                 |
| BH2522                                         | X                               |                                   |
| BH2497                                         |                                 | X                                 |
| BH2524                                         | X                               |                                   |
| BH2486                                         |                                 | X                                 |

The first monitoring round (Round 1) in February 2024 utilised bailers to purge and sample each borehole. From April 2024 onwards low flow techniques were used to sample each borehole,

which can allow for purging of water whilst reducing the turbidity of the sample and allowing for on-site indicators as to water quality.

Three surface water samples were collected during each monitoring visit, comprising two samples from up and downstream in the Colne Brook of the site, and one sample taken from upstream of the site in the Poyle Channel.

One duplicate groundwater sample was taken during each monitoring round for QA purposes. Samples were placed in containers appropriate for the type of analysis, sealed and labelled, and stored in cool boxes under chilled conditions prior to transportation to an accredited independent analytical laboratory (Element Materials Technology Ltd) with relevant chain of custody documentation. Laboratory certificates are provided in Appendix 2.

Table 2-2 – Groundwater Observations

| Monitoring Well  | Groundwater Encountered? | Range in Depth to Groundwater (m bgl) | Range in Groundwater Elevation (m AOD) | Inferred Aquifer Containing Groundwater <sup>1</sup> | Evidence for Contamination                                                                                                                                | Range of PID readings (ppm) |
|------------------|--------------------------|---------------------------------------|----------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Onsite</b>    |                          |                                       |                                        |                                                      |                                                                                                                                                           |                             |
| BH2498<br>BH2514 | Yes                      | 1.91–2.06<br>2.06–3.15                | 19.12–19.84<br>18.74–19.83             | Made Ground                                          | Rounds 1-4: Strong sulphurous odour in both installations and black suspended solids in groundwater                                                       | 0.1–1.0<br>0.0              |
| BH2501<br>BH2516 | Yes                      | 1.03–1.85<br>1.18–2                   | 18.69–18.73<br>18.55–19.37             | Made Ground                                          | N/A                                                                                                                                                       | 0.0–0.2                     |
| BH2499<br>BH2518 | Yes                      | 0.34–0.89<br>0.34–1.04                | 19.48–19.84<br>19.72–20.42             | Made Ground                                          | Rounds 1-4: Organic odour and cloudy water                                                                                                                | 0.0–0.1<br>0.0              |
| BH2506<br>BH2520 | Yes                      | Flooded-0.27<br>1.26–1.5              | 20.43–20.16<br>18.36–18.91             | Made Ground                                          | Rounds 1-4: Slight organic odour and black residue on pipework in the groundwater monitoring installation                                                 | 0–0.1<br>0.5                |
| BH2488<br>BH2526 | Yes                      | 0.77–2.06<br>1.36–2.0                 | 17.88–18.43<br>18.36–18.47             | Made Ground                                          | Rounds 1-4: Chemical odour                                                                                                                                | 0–0.7<br>0.5                |
| BH2484<br>BH2527 | Yes                      | Flooded-0.88<br>0.08–1.03             | 19.99–19.11<br>18.98–19.93             | Made Ground                                          | Rounds 1-4: Strong sulphurous odour                                                                                                                       | 0.0                         |
| BH2496<br>BH2513 | Yes                      | 1.22–2.23<br>1.34–2.18                | 18.96–19.09<br>19.15–19.99             | Made Ground                                          | N/A                                                                                                                                                       | 0–0.2<br>0.0                |
| BH2495<br>BH2517 | Yes                      | 2.49–2.91<br>2.51–3.43                | 19.32–19.44<br>18.65–18.95             | Made Ground                                          | Rounds 1-4: Strong sulphurous odour, hydrocarbon sheen on groundwater, and hydrocarbon/metallic sheen on water in headworks                               | 0–28.0<br>2.2               |
| BH2497<br>BH2522 | Yes                      | Dry–1.76<br>1.76–2.27                 | N/A-19.51<br>18.89–19.4                | Made Ground                                          | Rounds 1-4: Slight hydrocarbon odour, black suspended solids in groundwater and black residue on data logger down the groundwater monitoring installation | 0.5–1.1<br>1.7              |

## 2.2 Groundwater Levels

Groundwater levels across the majority of the site appear to be relatively level, with a moderate increase in elevation towards the north of the site. This increase may be a result of leaching from the Poyle Channel. The range in recorded groundwater elevations was between 17.88 mAOD in BH2488 during Round 1 and 20.42 mAOD in BH2518 in Round 3.

Groundwater contour plans show that groundwater in the northern half of the site typically flows towards the east, with some northerly flow present in the north-west of the site. Flow direction in the south is generally inferred to the west; flow within the wider off-site landfill is notably variable, likely as a result of the heterogeneous nature of the underlying waste materials. The contour plots were produced based on monitoring data provided from spring (Round 2, April 2024) and autumn (Round 4, October 2024) to capture seasonal variation in groundwater levels; no significant variation in flow direction was noted across the different contour plots.

### 3. Groundwater Risk Assessment

#### 3.1 Controlled Waters Environment

The superficial deposits beneath the site are classified as a Principal Aquifer (Shepperton Gravel Member) and a Secondary A Aquifer (Alluvium). As such, these are considered to be moderately sensitive receptors although it should be noted that the site is not in a groundwater Source Protection Zone (SPZ). Groundwater in the region is also considered to be of a generally poor quality, associated with the surrounding landfill, nearby longstanding trading estate and the presence of Heathrow Airport; groundwater (Lower Thames Gravels) has a 'Poor' Quantitative Status under the Water Framework Directive classification scheme.

The majority of the site was previously underlain by the Shepperton Gravel Member; however, this has been subject to gravel extraction and infilling, which will have affected the properties of the aquifer and significantly reduced its resource potential and sensitivity. The north-east of the site is mapped to be underlain by superficial deposits of Alluvium, which is present in the form of relatively impermeable deposits of silt. This has not been proven in on-site boreholes to date, but off-site boreholes have identified clay deposits close to the river/channel. Superficial deposits are underlain by bedrock of the London Clay Formation, which overlies the London Lower Tertiaries (Superficial) and chalk Principal Aquifer positioned at depth.

The nearest identified watercourse is the Poyle Channel located approximately 10m north of the site at its closest point, which flows into the Colne Brook approximately 300m to the north-west of the site. Wraysbury Reservoir is also located 135m to the south of the site. Surface water within the Colne Brook waterbody and Wraysbury Reservoir Water Body were classified as being of 'Moderate'. Given the engineered nature of the reservoir the waterbody is likely to be lined with impermeable materials, preventing interaction with groundwater beneath the site.

Groundwater contour plans show that groundwater in the northern half of the site typically flows towards the east, with some northerly flow present in the north-west of the site. Flow direction in the south is generally inferred to the west; flow within the wider off-site landfill is notably variable, likely as a result of the heterogenous nature of the underlying waste materials.

Based on publicly available surface water level data obtained from an upstream gauge approximately 300m to the east of the site, water level within the channel is located at an average depth of 20.6 mAOD. Groundwater levels beneath the site at the closest location to the channel (BH2516) during the same period (October 2024) were recorded at a depth of 19.11 mAOD. As this groundwater level is positioned towards the base of the water level of the Poyle Channel this indicates that the two water bodies are not in significant hydraulic continuity, limiting any potential interaction between the two waterbodies. This is further evidenced by the flow direction within the perched groundwater in the Made Ground being predominantly to the east with only limited flow recorded to the north in the north-east of the site towards the Poyle Channel. Local soakaways may also be influencing groundwater flow on-site.

#### 3.2 Assessment Approach

The detected concentrations have been screened versus groundwater standards (GS) and Environmental Quality Standards (EQS) for risks to surface waters. Some groundwater standards are based on the protection of drinking water, which is overly conservative for this site which is not located in a drinking water zone – in the absence of other authoritative standards. Therefore, exceedances of these conservative standards are noted but where the exceedances are not significantly elevated these are dismissed as insignificant, as noted in the risk assessment

findings. Groundwater sample screening tables are presented in full in Appendix 3, with key results presented below.

The following determinands were not detected above or generally below the Laboratory Method Detection Limit (LMDL) and will not be discussed further in this report:

- Metals (cadmium, nickel, selenium, vanadium and zinc);
- Phenols;
- BTEX (with the exception of benzene) or MTBE;
- Cyanide;
- Volatile Organic Compounds (VOCs) with the exception of vinyl chloride and benzene; and,
- Semi-Volatile Organic Compounds (SVOCs).

[Table 3-1](#) below provides a summary of the risk assessment for groundwater resources and [Table 3-2](#) provides a summary of the risk assessment for the surface water environment. Exceedances of screening criteria do not infer that an unacceptable risk is present; the outcome of the screening is assessed further in the context of a qualitative source-pathway-receptor risk assessment.

### 3.3 Risks to Human Health Receptors

The groundwater analytical results obtained have been screened against commercial/industrial GAC; whilst a residential dwelling currently resides in the north-east of the site it is understood that no on-site residential receptors will be present following the redevelopment. As such, results screened against residential GAC are considered to be overly conservative and not representative of risk posed to potential human health receptors.

No exceedances of screening of groundwater samples against the commercial/industrial GAC were encountered, indicating that a viable groundwater volatilisation pathway is not present beneath the site. No exceedances of the GAC for a residential end use were recorded on or within the immediate vicinity of the site.

Table 3-1 Risks to the Groundwater Environment

| Contaminant                             | No. of Samples | GAC (µg/l)<br>[Source] | Number of Exceedances of GAC recorded | Minimum Concentration (µg/l) | Maximum Concentration (µg/l) | Distribution Comment                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------|----------------|------------------------|---------------------------------------|------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Metals</b>                           |                |                        |                                       |                              |                              |                                                                                                                                                                                                                                                                                                                        |
| Arsenic                                 | 34             | 5 [G1]                 | 13                                    | <0.9                         | 51.9 (BH2526, July 2024)     | Elevated concentrations were consistently recorded on and directly off-site in the north (BH2513, BH2514, BH2517, BH2520 and BH2522). Samples taken from BH2525, BH2526 and BH2527 in the south of the site also consistently exceeded the GAC.                                                                        |
| Boron                                   | 34             | 750 [G2]               | 11                                    | <3.0                         | 2,207 (BH2517, Oct 2024)     | Positions consistently recording exceedances of boron were typically located in the west of the site or immediately off-site to the west (BH2513, BH2514, BH2515, BH2517, BH2519, BH2522 and BH2524).                                                                                                                  |
| Iron                                    | 34             | 200 [G3]               | 18                                    | <2.0                         | 29,807.3 (BH2526, Oct 2024)  | Exceedances located across the site, with higher concentrations recorded in the south.                                                                                                                                                                                                                                 |
| <b>Organics</b>                         |                |                        |                                       |                              |                              |                                                                                                                                                                                                                                                                                                                        |
| <b>Polycyclic Aromatic Hydrocarbons</b> |                |                        |                                       |                              |                              |                                                                                                                                                                                                                                                                                                                        |
| Anthracene                              | 34             | 0.05 [G1]              | 13                                    | <0.005                       | 0.978 (BH2520, Feb 2024)     | BH2520 recorded consistently elevated concentrations of Anthracene, which may relate to the infill in this area and is also downgradient of the USTs. Exceedances of GAC were present across the north of the site, although at relatively low concentrations; no exceedances were noted across the south of the site. |
| Benzo(a)pyrene                          | 34             | 0.005 [G1]             | 16                                    | <0.005                       | 4.888 (BH2520, Feb 2024)     | The highest concentration on-site was recorded in BH2520, which is located downgradient of the fuel USTs. Relatively low exceedances of the GAC were recorded in the majority of locations across the site.                                                                                                            |
| Benzo(b)fluoranthene                    | 34             | 0.05 [G1]              | 8                                     | <0.008                       | 7.093 (BH2520, Feb 2024)     | The number of exceedances were relatively low, with elevated concentrations recorded on and off-site in the north-west. No exceedances were recorded in the south of the site.                                                                                                                                         |
| Benzo(g,h,i)perylene                    | 34             | 0.05 [G1]              | 7                                     | <LoD                         | 4.301 (BH2520, Feb 2024)     | Similar to other PAHs, the highest concentrations were recorded in BH2520. Other locations with marginal exceedances included BH2513, BH2516 and BH2522, with none recorded in the south of the site.                                                                                                                  |
| Benzo(k)fluoranthene                    | 34             | 0.05 [G1]              | 6                                     | <LoD                         | 2.759 (BH2520, Feb 2024)     | Exceedances were consistently recorded at BH2520 throughout all monitoring rounds, with other elevated concentrations detected in BH2513 and BH2522 during the February 2024 monitoring round. No exceedances were recorded in the south of the site.                                                                  |

| Contaminant                                      | No. of Samples | GAC (µg/l) [Source] | Number of Exceedances of GAC recorded | Minimum Concentration (µg/l) | Maximum Concentration (µg/l) | Distribution Comment                                                                                                                                                                                                                                                                        |
|--------------------------------------------------|----------------|---------------------|---------------------------------------|------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fluoranthene                                     | 34             | 0.075 [G2]          | 14                                    | <LoD                         | 4.429 (BH2520, Feb 2024)     | Exceedances were present across the north of the site, with none recorded in the south.                                                                                                                                                                                                     |
| Indeno(1,2,3-cd)pyrene                           | 34             | 0.05 [G1]           | 6                                     | <LoD                         | 4.657 (BH2520, Feb 2024)     | Consistently elevated concentrations were associated with BH2520. Exceedances were recorded at BH2513, BH2514, BH2516, BH2518, BH2522 and BH2526 in the February 2024 monitoring round.                                                                                                     |
| Naphthalene                                      | 34             | 0.075 [G2]          | 3                                     | <LoD                         | 19.9 (BH2514, July 2024)     | Elevated concentrations were recorded in BH2514 July and October 2024.                                                                                                                                                                                                                      |
| Sum of 4 PAHs                                    | 34             | 0.1 [G3]            | 8                                     | <LoD                         | 19.041 (BH2520, Feb 2024)    | A sum of the PAHs benzo(b)fluoranthene, benzo(g,h,i)- perylene, benzo(k)fluoranthene and indeno(1,2,3- cd)-pyrene; exceedances recorded on-site were recorded in BH2516 and BH2520 in the north of the site with significantly elevated concentrations isolated to BH2520.                  |
| <b>Total Petroleum Hydrocarbons</b>              |                |                     |                                       |                              |                              |                                                                                                                                                                                                                                                                                             |
| <b>Aromatics</b>                                 |                |                     |                                       |                              |                              |                                                                                                                                                                                                                                                                                             |
| C21-C35                                          | 34             | 90 [G4]             | 1                                     | <LoD                         | 710 (BH2520, Feb 2024)       | One exceedance of the GAC was recorded in BH2520 located in the datacentre area of the site.                                                                                                                                                                                                |
| <b>Per and polyfluoroalkyl substances (PFAS)</b> |                |                     |                                       |                              |                              |                                                                                                                                                                                                                                                                                             |
| PFOS                                             | 23             | 0.1[G3]             | 3                                     | <LoD                         | 3.6 (BH2517, July 2024)      | Exceedances of PFOS were recorded in two locations; BH2517 in July and October 2024 and BH2513 in February 2024. No other exceedances for the GAC for PFOS have been recorded. The highest concentration on-site was recorded in BH2518 (0.0598 µg/l).                                      |
| PFHxS                                            | 23             | 0.1 [G3]            | 2                                     | <LoD                         | 0.12 (BH2517, Oct 2024)      | The two exceedances for PFHxS were recorded in BH2517 off-site to the west. No exceedances have been reported in downgradient wells on-site.                                                                                                                                                |
| PFPeA                                            | 23             | 0.1 [G3]            | 1                                     | <LoD                         | 0.37 (BH2526, Oct 2024)      | Only one exceedance of PFPeA was recorded in the south of the site in October 2024.                                                                                                                                                                                                         |
| Total PFAS                                       | 23             | 0.5 [G5]            | 5                                     | <LoD                         | 4.3416 (BH2517, July 2024)   | Only two locations on-site recorded exceedances of EU Drinking Water Directive standards for total PFAS. These were BH2518 in the north and BH2526 in the south.                                                                                                                            |
| <b>Other Inorganics</b>                          |                |                     |                                       |                              |                              |                                                                                                                                                                                                                                                                                             |
| Ammoniacal Nitrogen (as N)                       | 34             | 0.29 (mg/l) [G2]    | 29                                    | 0.03                         | 22.01 (BH2522, July 2024)    | Exceedances of the GAC for ammoniacal nitrogen were recorded at each borehole location. Since 2023, notably elevated concentrations on or in the immediate vicinity of the site (i.e. >5 mg/l) have been localised to BH2513, BH2514, BH2517, BH2522 and BH2524 along the western boundary. |



| Contaminant                 | No. of Samples | GAC (µg/l)<br>[Source] | Number of Exceedances of GAC recorded | Minimum Concentration (µg/l) | Maximum Concentration (µg/l) | Distribution Comment                                                                                                                                                                                                                                                |
|-----------------------------|----------------|------------------------|---------------------------------------|------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chloride                    | 34             | 188 (mg/l)<br>[G2]     | 2                                     | 5.1                          | 217.5 (BH2517, Oct 2024)     | No exceedances were recorded on-site. Exceedances were consistently recorded in BH2517 to the west of the site.                                                                                                                                                     |
| Nitrate as NO <sub>3</sub>  | 34             | 37.5 (mg/l)<br>[G2]    | 1                                     | <LoD                         | 45.2 (BH2526, July 2024)     | Only one location recorded an exceedance of the GAC for nitrate as NO <sub>3</sub> (BH2526) in the south of the site. However, no other exceedances have been recorded and the subsequent concentration in the October monitoring round was below the relevant GAC. |
| Sulphate as SO <sub>4</sub> | 34             | 188 (mg/l)<br>[G2]     | 7                                     | <LoD                         | 402.5 (BH2527, Oct 2024)     | Exceedances recorded on-site were located in BH2514, BH2516, 2518 BH2527. Off-site locations within 50m of the site with exceedances were BH2513 and BH2522.                                                                                                        |

The following criteria have been used to select GAC:

- G1 – Hazardous substances in groundwater for waterbodies at 'High' WFD status: UKTAG Technical Report on Groundwater Hazardous Substances Sept 2016 plus accompanying Confirmed Hazardous Substances List (January 2018) - Concentration in Groundwater Below Which Danger of Deterioration in Receiving Groundwater is Avoided
- G2 – Non-hazardous substances in groundwater and waterbodies not at 'High' WFD status: WFD Threshold Values (TVs) for 'Good' Status. The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015GW1 - UKTAG Technical Report on Groundwater Hazardous Substances Sept 2016 plus accompanying Confirmed Hazardous Substances List (January 2018).
- G3 – The EU Drinking Water Directive standards (Directive 98/83/EC on the Quality of Water Intended for Human Consumption)
- G4 - World Health Organization (WHO) guide values for TPHCWG fractions in drinking water
- G5 – EC Technical Guidance for Deriving Environmental Quality Standard, Annual Average (AA) for inland waters.

### 3.3.1 Risks to Groundwater Receptors

Groundwater in the Secondary A and Principal Aquifers beneath the site and off-site are considered to be sensitive receptors. Elevated concentrations of inorganic contaminants, including ammoniacal nitrogen, sulphates, chloride, nitrate and metals including arsenic, boron and iron were recorded in groundwater samples above GAC. The concentrations of contaminants present in the south and north of the site are considered to be associated with the historic infilling that occurred on-site and off-site.

Elevated concentrations of the metals, arsenic and iron, were consistently recorded in the south. More sporadic exceedances of relevant GAC of metals including boron were recorded across the site, notably on and directly off-site to the north-west; no obvious trends were observable within these results. Metals are considered to be relatively immobile contaminants and the absence of exceedances of relevant GAC downgradient of known hotspots indicates that there is not significant lateral migration of metals within groundwater. Exceedances recorded for sulphate, chloride and nitrate are all considered to be marginal in comparison to EQS.

Notably elevated concentrations of ammoniacal nitrogen on or in the immediate vicinity of the site (i.e. >5 mg/l) have been localised to BH2513, BH2514, BH2517, BH2522 and BH2524 along the western boundary. The only location on-site with significantly elevated concentrations was BH2514, with a maximum concentration of 11.83 mg/l in July 2024 compared to the GAC of 0.29 mg/l. This is located along the north-west boundary, indicating that on-site migration of ammoniacal nitrogen from the wider landfill is likely not occurring. Furthermore, BH2513 which is downgradient and positioned to the north-west of the site consistently recorded lower concentrations than those in BH2514. Groundwater flow is to the east and flow off-site is expected to be limited by the low permeability alluvium deposits off-site to the east.

PFAS were detected in groundwater samples collected during all monitoring visits at very low concentrations, which is not unexpected given the ubiquitous nature of this contaminant in the environment. In Ramboll's experience the Environment Agency apply a value of 0.1 µg/l for each subset of PFAS compounds, which is based on the drinking water wholesomeness standard of 100ng/l. Concentrations of PFOS and PFHxS were encountered in excess of relevant GAC in BH2517 and BH2513, both of which are situated off-site to the west. Groundwater contour plots show that groundwater in these locations does not flow on-site limiting potential for on-site migration. In addition, no concentrations were detected above the GAC (<0.65ng/l) in the nearby on-site BH2520. One exceedance of total standard for PFPeA (0.1 µg/l) was recorded in BH2526 in the south of the site (0.37 µg/l) during the October 2024 monitoring round. It should be noted that the concentration was generally low and no other exceedances of PFPeA were detected during any of the other monitoring rounds.

Only two locations on-site recorded exceedances of EU Drinking Water Directive standards for total PFAS (0.5 µg/l). These were BH2518 in the north at a concentration of 0.52 µg/l and BH2526 in the south at a concentration of 1.5 µg/l. The total concentration of PFAS in BH2518 and 0.28 µg/l of BH2526 comprised PFBA, which is a short chain PFAS compound (i.e. with six or fewer perfluorinated carbons) and can be a breakdown product of other PFAS. It is not considered to be easily transformed/degraded by hydrolysis or photolysis in water to any appreciable extent and neither biodegradable under aerobic or anaerobic environmental conditions in water or soil. Short chain PFAS tend to be more soluble in water, than long chain PFAS, thereby having a higher potential for aqueous transport. However, the bioaccumulation potential of short-chain PFAAs is lower than that of long chain PFAAs. The site is not located in a drinking water zone.

Concentrations of PAHs above the GAC were noted to be most commonly present in BH2520; it is unclear if the concentrations relate to the Made ground at this location or the USTs. Whilst flow direction in the north of the site is generally inferred to the east, the lower permeability Alluvium in the north-east

extending off-site to the east is considered to be a mitigating factor in potential off-site lateral migration of residual contamination in groundwater.

No observable seasonal trend in the concentrations of contaminants was recorded in samples of groundwater, although exceedances were typically recorded in the same locations during all monitoring rounds.

Along the north-west site boundary groundwater typically flows in a more northerly direction, however, the presence of the Poyle Channel to the north is considered to limit hydraulic continuity with the off-site aquifer. Furthermore, the presence of reworked clay type Made Ground overlying the gravels present along the northern boundary is considered to limit permeability along the site boundary and a separate landfill is located to the north. The deeper chalk Principal Aquifer is considered to be protected from the downwards migration impacted groundwater by the presence of the underlying impermeable London Clay bedrock. Surface water impacts are assessed further in the risk assessment below.

No observable seasonal trend in the concentrations of contaminants was recorded in samples of groundwater, although exceedances of quality standards were typically recorded in the same locations during all monitoring rounds. However, no significant source-pathway-receptor relationships have been identified.

Table 3-2 Risks to the Surface Water Environment

| Contaminant                             | No. of Samples | GAC (µg/l)<br>[Source]            | Number of Exceedances of GAC recorded | Minimum Concentration (µg/l) | Maximum Concentration (µg/l) | Distribution Comment                                                                                                                                                                                                                                      |
|-----------------------------------------|----------------|-----------------------------------|---------------------------------------|------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Metals</b>                           |                |                                   |                                       |                              |                              |                                                                                                                                                                                                                                                           |
| Arsenic                                 | 34             | 50 [S1]                           | 1                                     | <LoD                         | 51.9 (BH2526, July 2024)     | Only one exceedance of the GAC for arsenic was recorded in BH2526 in the south of the site during the July 2024 monitoring round. However, during the subsequent October 2024 monitoring round concentrations had dropped below the GAC exceedance level. |
| Boron                                   | 34             | 2000 [S1]                         | 1                                     | <LoD                         | 2,207 (BH2517, Oct 2024)     | One exceedances of boron was recorded in BH2517; no on-site borehole samples recorded significantly elevated concentrations.                                                                                                                              |
| Chromium (III)                          | 34             | 4.7 [S1]                          | 2                                     | <LoD                         | 8.9 (BH2516, Oct 2024)       | Two exceedances were recorded in the north of the site during the October 2024 monitoring round; these were located in BH2516 and BH2518. No other exceedances were recorded.                                                                             |
| Copper                                  | 34             | 6.81<br>[S1, EQS<br>bioavailable] | 4                                     | <LoD                         | 12.0 (BH2520, Oct 2024)      | Exceedances on site were recorded in BH2520 in the north of the site and BH2513 off-site to the north-west.                                                                                                                                               |
| Iron                                    | 34             | 1000 [S1]                         | 14                                    | <LoD                         | 29,807.3 (BH2526, Oct 2024)  | Exceedances of iron were recorded across the site and the wider landfill to the west. Notably higher concentrations were recorded in the south of the site (BH2525, BH2526 and BH2527).                                                                   |
| Lead                                    | 34             | 1.2<br>[S2, EQS<br>bioavailable]  | 1                                     | <LoD                         | 1.8 (BH2520, Oct 2024)       | Only one exceedance of the GAC for lead was recorded on-site in BH2520 during the October 2024 monitoring round. Concentrations of lead across the majority of samples were not recorded above the LOD.                                                   |
| <b>Organics</b>                         |                |                                   |                                       |                              |                              |                                                                                                                                                                                                                                                           |
| <b>Polycyclic Aromatic Hydrocarbons</b> |                |                                   |                                       |                              |                              |                                                                                                                                                                                                                                                           |
| Anthracene                              | 34             | 0.1 [S2]                          | 6                                     | <LoD                         | 0.987 (BH2520, Feb 2024)     | Concentrations were recorded above the GAC across the site, with more locally elevated readings encountered in BH2520.                                                                                                                                    |
| Benzo(a)pyrene                          | 34             | 0.00017 [S2]                      | 18                                    | <LoD                         | 4.888 (BH2520, Feb 2024)     |                                                                                                                                                                                                                                                           |
| Benzo(b)fluoranthene                    | 34             | 0.00017 [S2]                      | 15                                    | <LoD                         | 7.093 (BH2520, Feb 2024)     |                                                                                                                                                                                                                                                           |
| Benzo(g,h,i)perylene                    | 34             | 0.00017 [S2]                      | 15                                    | <LoD                         | 4.301 (BH2520, Feb 2024)     |                                                                                                                                                                                                                                                           |
| Benzo(k)fluoranthene                    | 34             | 0.00017 [S2]                      | 8                                     | <LoD                         | 2.759 (BH2520, Feb 2024)     |                                                                                                                                                                                                                                                           |
| Fluoranthene                            | 34             | 0.0063 [S2]                       | 29                                    | <LoD                         | 4.429 (BH2520, Feb 2024)     |                                                                                                                                                                                                                                                           |
| Indeno(1,2,3-cd)pyrene                  | 34             | 0.00017 [S2]                      | 16                                    | <LoD                         | 4.657 (BH2520, Feb 2024)     |                                                                                                                                                                                                                                                           |

| Contaminant                                      | No. of Samples | GAC (µg/l) [Source] | Number of Exceedances of GAC recorded | Minimum Concentration (µg/l) | Maximum Concentration (µg/l) | Distribution Comment                                                                                                                                                                                                                                                |
|--------------------------------------------------|----------------|---------------------|---------------------------------------|------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Naphthalene                                      | 34             | 2 [S2]              | 2                                     | <LoD                         | 19.9 (BH2514, Jul 2024)      | Exceedances of the GAC for Naphthalene were only recorded in BH2514 during the July and October 2024 monitoring rounds.                                                                                                                                             |
| <b>Per and polyfluoroalkyl substances (PFAS)</b> |                |                     |                                       |                              |                              |                                                                                                                                                                                                                                                                     |
| PFOS                                             | 23             | 0.65 ng/l [S4]      | 12                                    | <LoD                         | 3.6 (BH2517, July 2024)      | Relatively low exceedances for the EQS for PFOS were recorded on-site in BH2516, BH2518 and BH2520 in the north and BH2526 in the south. All others were situated off-site to the west. The most elevated reading was identified in BH2517 off-site to the west.    |
| <b>Other Inorganics</b>                          |                |                     |                                       |                              |                              |                                                                                                                                                                                                                                                                     |
| Ammoniacal Nitrogen                              | 34             | 0.6 (mg/l) [S1]     | 26                                    | 0.03 (mg/l)                  | 22.01 (BH2522, July 2024)    | Elevated concentrations on-site have been limited to BH2514, BH2516 and BH2518 in the north and BH2526 and BH2527 in the south. Off-site exceedances were recorded in BH2513 to the north-west and BH2517 and BH2522 to the west.                                   |
| 1,4-Dioxane                                      | 23             | 0.46 [S5]           | 3                                     | <LoD                         | 46.5 (BH2517, April 2024)    | Three locations recorded concentrations of 1,4-dioxane above EQS; these were BH2517 and BH2522 off-site to the west and BH2514, located in the north-west corner of the site. No exceedances were recorded during the following July and October monitoring rounds. |
| Sulphate as SO4                                  | 34             | 400 [S1]            | 1                                     | <LoD                         | 403.5 (BH2527, October 2024) | Exceedances on-site were localised to BH2527 in the south during the October 2024 monitoring round.                                                                                                                                                                 |

The following criteria have been used to select GAC:

S1 – Specific and other pollutants in surface water: The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015 or where not available EA EQSs to be utilised in surface water risk assessments as part of environmental permit applications and WFD assessments of works in coastal and transitional waters in England.

S2 - Priority substances in surface water and selected (other determinands to which this policy relates): 2013/39/EU: Priority Substances in the Field of Water Policy Directive and 2008/105/EC: Environmental Quality Standards in the Field of Water Policy Directive

S3 - World Health Organization (WHO) guide values for TPHCWG fractions in drinking water

S4 – EC Technical Guidance for Deriving Environmental Quality Standard, Annual Average (AA) for inland waters

S5 - Tap Water standard for US Environmental Protection Agency (EPA) Regional Screening Levels

### 3.3.2 Surface Water Discussion

Exceedances in relation to surface waters typically followed trends observed throughout the groundwater screening. Ammoniacal nitrogen is considered to be the primary risk to surface water quality given the significantly elevated concentrations recorded and its widespread nature across the site. However, concentrations recorded in the downstream surface water sample of the Colne Brook were generally the same if not lower than upstream samples from the Poyle Channel and the Colne Brook, which were both notably low in concentration. This indicates that residual contamination in groundwater beneath the site is not migrating laterally into adjacent surface water features, and therefore a significant risk has not been identified.

With the exception of widespread iron exceedances, elevated concentrations of metals were generally sporadic across the site or located off-site within the wider landfill area. Exceedances of iron were not recorded in significant concentrations in any of the surface water samples tested.

No exceedances of aromatic or aliphatic TPH fractions were recorded on-site. Concentrations of PAHs were generally recorded across the site, with more locally elevated readings recorded in BH2520. Concentrations of the PAH benzo(a)pyrene, the most widespread PAH, were noted to be present in excess of GAC (0.00017 µg/l) in surface water samples taken from the Colne Brook and Poyle Channel. The highest concentrations were typically present in the upstream samples, such as the concentrations of 0.007 µg/l recorded in both locations compared to concentrations below the LoD in the downstream sample and the borehole positioned closest to the Poyle Channel (BH2513). This indicates that potentially residual contamination in groundwater beneath the site is not the source of elevated concentrations in nearby surface water receptors and that higher concentrations are likely reflective of the poor water quality of the region associated with surrounding land uses such as the nearby industrial estate, historic landfills and Heathrow Airport.

1,4-dioxane was recorded in three locations exceeding EQS from February 2024 to April 2024, although only one of these was located on-site in BH2514 in April 2024 (45.7 µg/l against an EQS of 0.46 µg/l), which is located along the north-west boundary; however, there were no correspondingly elevated concentrations of 1,4-dioxane in downstream samples and no exceedances of the surface water EQS were recorded from April onwards.

Concentrations of PFOS were recorded in BH2516 (0.0184 µg/l), BH2518 (0.0598 µg/l) and BH2520 (0.05 µg/l) in the north of the site and BH2526 (0.1 µg/l) in the south; the majority of recorded concentrations are considered to be marginal exceedances of the EQS protective of the surface water environment (0.00065 µg/l) and a significant 'high-risk' source of PFAS has not been identified on-site. Further, the PFOS EQS of 0.00065µg/l is based on protection of human health relating to the consumption of biota (i.e. fishery products). Further Quality Standards are set protective of the pelagic community receptors and then secondary predators of the pelagic community at 0.23µg/l and 0.002µg/l respectively, as set out in the EQS dossier for PFOS. Concentrations on-site were generally below the 0.23µg/l and above the 0.002µg/l standard. However, limited connection to surface water receptors has been identified as discussed below.

As stated previously given the difference in water level elevation between the Poyle Channel and the groundwater underlying the site, the two water bodies are likely not in significant continuity. Further, groundwater flow across much of the north of the site flows eastwards and not towards the Poyle Channel further indicating the lack of significant continuity. This along with the low permeable clay Made Ground/reworked Alluvium deposits along the northern boundary limit any potential interaction between the two waterbodies, which is reflected in the significantly lower concentrations of contaminants recorded in all surface water samples. Potential risks to surface water receptors to the west and south, including the Colne Brook and Wraysbury Reservoir, are considered to be limited given their distance from the site.

## 4. Ground Gas Risk Assessment

### 4.1 Ground Gas Monitoring Results

The ground gas assessment included in this report is provided for indicative purposes only and is not intended for use as a detailed ground gas risk assessment.

In order to further characterise the ground gas regime four monitoring rounds were carried out between February and October 2024. The number and frequency of monitoring rounds was based on guidance provided within CIRIA C655<sup>1</sup>. The ground gas monitoring results are provided in full in Appendix 4.

### 4.2 Results and Discussion

#### 4.2.1 Atmospheric Pressure

The lowest pressure recorded was 983mb in October 2024, whilst the highest atmospheric pressure recorded being 1022mb in April 2024.

#### 4.2.2 Flow Rates

The peak gas flow rate of 0.5 l/hr was recorded during October 2024 in BH2488 in the BESS area of the site. With the exception of two gas flow rates of 0.2 l/hr recorded in BH2496 off-site to the north-west in April and BH2501 in the north-east of the datacentre area in October all other flow rates recorded were of 0.1 l/hr or below the instrument detection level (<0.1 l/hr). All readings greater than 0.1 l/hr were recorded during periods of low pressure (between 983mb and 998mb).

#### 4.2.3 Methane and Carbon Dioxide

The highest encountered methane concentration on-site was 89.6% v/v recorded in BH2488 in the BESS area in July. The maximum concentration of methane in the north of the site was recorded in BH2514 at a concentration of 54.2% v/v in July.

The highest recorded carbon dioxide values recorded above the lower instrument detection limit on-site was recorded in BH2488 (10.3% v/v) the BESS area in July. The highest recorded concentration in the datacentre area was 7.3% v/v recorded in BH2501 in April. Readings were predominantly less than 10% v/v. The elevated concentrations are expected to relate to the variable nature of the infill material on-site.

#### 4.2.4 Oxygen

Minimum oxygen was measured in at a concentration of 0% v/v in three locations on-site throughout 2024; BH2488 in the BESS area and BH2488/BH2514 in the north-west of the site. resulting in 15 minimum values of 0% out of 61.

#### 4.2.5 Carbon Monoxide

The maximum recorded concentration was 21ppm in BH2488 in the south of the site in the February monitoring round. Only two locations in the north of the site recorded concentrations above the instrument detection limit (<1 ppm) BH2498 and BH2506, with respective readings of 2 ppm and 1ppm.

#### 4.2.6 Hydrogen Sulphide

The maximum concentration recorded was 35ppm in BH2488 in the BESS area in October 2024. Only three locations in the datacentre area of the site recorded concentrations above the

<sup>1</sup> Assessing risks posed by hazardous ground gases to buildings; CIRIA C665, 2007

instrument detection limit (<1 ppm), with maximum concentrations of 2 ppm recorded in BH2514 and BH2506.

#### 4.2.7 Volatile Organic Compounds (VOCs)

During the ground gas monitoring a photo-ionisation detector (PID) was used to screen for the potential presence of VOCs within the monitoring wells. The maximum was 28ppm recorded in BH2495 in July. The highest concentration recorded on-site was 0.5 ppm in BH2488 in the BESS area in the October monitoring round. Generally, concentrations recorded were below the instrument limit of detection (<0.1 ppm) or just above. In Ramboll's experience these readings are not significantly elevated and no soil or groundwater GAC exceedances attributable to vapour risks have been identified. No significantly elevated VOC concentrations were recorded within the vicinity of the decommissioned USTs.

### 4.3 Classification of Ground Gases

The risk posed by ground gases has been assessed by calculating a Gas Screening Value (GSV) based on a worst-case scenario of the maximum flow rate recorded in a given area and the maximum gas concentration (with individual GSVs calculated for both methane and carbon dioxide). The GSV has been calculated by multiplying the steady state flow rates and gas concentrations; as summarised in [Table 4-1](#). The GSV is used to support assessment of the site's characteristic situation (CS).

The site is to be developed as a datacentre and BESS and each area has been considered separately given the differing nature of the development and that the source potential is subtly different with the BESS area located fully on landfilled ground, whereas the datacentre is only partially located on ground classed as a landfill with the majority located on a mixed fill formed of reworked natural deposits and construction materials.

**Table 4-1 Ground Gas Assessment**

| Potential Source   | Maximum Flow Rate (l/hr) | CO <sub>2</sub>                   |            | CH <sub>4</sub>                   |            | Characteristic Situation |
|--------------------|--------------------------|-----------------------------------|------------|-----------------------------------|------------|--------------------------|
|                    |                          | Maximum Gas Concentration (% v/v) | GSV (l/hr) | Maximum Gas Concentration (% v/v) | GSV (l/hr) |                          |
| North (Datacentre) | 0.2                      | 7.3                               | 0.0144     | 54.2                              | 0.1084     | <b>2 – Low Risk</b>      |
| South (BESS)       | 0.5                      | 10.3                              | 0.0515     | 89.6                              | 0.448      | <b>2 – Low Risk</b>      |

Based on BS8485<sup>7</sup>

Based on a worst case GSV calculation the site is classified as 'Characteristic Situation 2' (CS2, that corresponds to a low hazard) in BS8485. Whilst elevated ground gas volumes were recorded flow rates at the same locations were not significantly high. As a result, only BH2488 in the south of the site corresponds to a CS2 classification, with all others corresponding with a CS1 classification. Despite this, given the elevated concentrations of methane (89.6% v/v) and carbon dioxide (10.3% v/v) recorded the site is considered to correspond to CS3 (moderate risk), which is typical of an old landfill.

The design of future buildings on site will need to take into account the findings of this gas risk assessment and will need to consider the incorporation of appropriate ground gas protection measures for the proposed use of the site. The requirement and design of gas protection measures will need to be implemented in line with guidance provided in BS8485, which includes consideration for the building's construction and use.



## 5. Conclusions

Ramboll has produced this Annual Groundwater Monitoring Report to assist in the proposed demolition of existing buildings and site re-levelling, erection of a building for use as a data centre, erection of a sub-station, a Battery Energy Storage System (BESS), as well as associated external works and utility infrastructure, site access works, internal circulation routes and landscaping at the Manor Farm site in Poyle, Slough. Information used to inform this assessment was obtained from quarterly monitoring visits undertaken between February and October 2024.

Evidence of residual contamination encountered was consistent with historic use of the south and the north-west of the site as a landfill and the north-east of the site for light industrial/commercial uses, which also resulted in infilling (as reworked construction and natural materials).

The presence of residual concentrations of contaminants including ammoniacal nitrogen, iron and petroleum hydrocarbons in groundwater is considered to be typical of a site subject to variable filling. Whilst there is contamination present the potential for this to represent a significant risk to wider groundwater or surface waters is considered to be limited. Petroleum hydrocarbon contamination identified locally close to the USTs in the north of the site is also considered to be associated with the presence of the now decommissioned diesel USTs; however, it is understood that below ground fuel infrastructure will be removed as part of the development.

Whilst exceedances of inorganic and organic contaminants were recorded in excess of relevant GAC or EQS protective of groundwater and surface water environments, the presence of low permeability clayey Made Ground/reworked alluvium deposits along the boundary is expected to act as a mitigating factor to off-site migration. Likewise, deposits of low permeability Alluvium in the east of the site are expected to limit lateral migration, which could potentially impact the off-site superficial aquifer. The deeper chalk aquifer is considered to be protected from vertical migration of impacted groundwater due to the presence of the underlying impermeable bedrock.

No exceedances of screening of groundwater samples against the GAC for a commercial/industrial development were encountered, indicating that a viable groundwater volatilisation source is not present beneath the site.

The difference in elevation between groundwater beneath the site and surface water levels within the adjacent Poyle Channel indicates that the two waterbodies are not in significant hydraulic continuity. In addition, no correspondingly increased concentrations of contaminants have been recorded in surface water samples taken from the Poyle Channel or Colne Brook. This indicates that contaminated groundwater beneath the site is not significantly interacting with nearby surface waters, and therefore no potential risk has been identified.

Ramboll's ground gas monitoring data recorded concentrations and flow rates consistent with a Characteristic Situation 2 classification; however, given elevated concentrations of methane and carbon dioxide it is recommended that the site be classified as CS3 (moderate risk) which is typical of old landfill sites. It would be prudent to undertake further investigation of the gas source beneath the datacentre building and to use continuous monitoring techniques to further assess using quantitative techniques the characteristic situation during the detailed design stage.

Identified contamination is considered to be manageable in the context of the proposed low sensitivity commercial use. Furthermore, the proposed development will improve the existing site conditions and remove obvious sources of contamination (e.g. underground storage tanks) during the works. The site is considered suitable for commercial development, however, further investigation to delineate areas of potential contamination and provide ground and groundwater information in areas of data gaps is recommended.